

Curriculum Vitae and Backgrounds



Self-Introduction

I am scientific consultant and a project manager with experience in international enterprise projects, and a data-science and machine-learning consultant for medium/big companies. I am also a consultant and an advisor in Microsoft Technologies. My main job objective is to realize **innovation through research**.

I took a PhD at the Computer Science Department of the University of Milano Bicocca in 2011. I have 4 years of Post-Doc in data-science and Machine-Learning applied to situation assessment and data analysis. I am a Microsoft Certified Professional since 1999.

From January 2017 I am the CTO of Educational Factory, a startup company in Milan Italy, focused on Medicine and ICT, devoted to introduce innovation in medicine 4.0. This new but cutting edge startup company was founded by researcher in medicine, psychology, computer science, material science. Educational Factory is focused on medical application and social products (social apps), Business Intelligence and CRM augmented using at-the-state-of-the-art intelligent methods, for Sentiment Analysis, Brand identification, Big data analysis. Educational Factory has also a branch in bioinformatics and genetics.

From 2011 I am data-science **consultant** for Medium Size Companies in Italy, Germany, Portugal, Spain, Austria. The main goal of my job is to introduce the benefits of innovation personalization, data analysis, in business intelligence, medical service/devices. In medical devices real time response question added up to intelligent analysis question requiring capacity to invent solution intelligent and responsive. Solution are deployed in different layers deployed in C#, Azure ML, SQL, R, Python. Analysis instruments like Knime, Rapid Miner, Matlab, are used during the development phase. The client side components follow human centered design principles and ensure to respect

the human factors aspects. Client App are mainly developed in C# as Windows Phone components, or Android - Java components.

From 2011 to 2017 I acted as project coordinator in four international projects (with some overlapping periods) funded by European community (AAL Program) and MIUR, and devoted to create service for frail people, using medical devices, wearables or intelligent interface enhanced by data science and machine learning (White Home; EasyReach AAL call 2 , HCIM project founded by Italian Ministry of Research; Gently Ageing AAL call 6) . During the same period I was project consultant for Portuguese, Italian and German companies in the area of BI and CRM. The covered area *text analysis, sensor data analysis, behavioral analysis, topic detections, sentiment analysis, faceting*, and BI/CRM enhanced by the use of intelligent algorithms.

About my education.

In February 2011 I took my PhD with an original Thesis in Machine Learning in the context of wearables, Ambient sensors, Real-time locating system. My PhD thesis was tested, realized and implemented in C# - SQL. I brought and presented some of my thesis results at Microsoft Cambridge and at the Politecnico di Milano DEIB, and become also material of university courses. The developed methods are considered innovative and general, i.e. flexible enough to be used in very diverse applied context: results were **presented and awarded** at AITAMI conference [10]. As byproduct two innovative classificatory algorithm in the area of Machine Learning have been defined [1][3] now subjected to a patent process. Two products for sensor analysis was built on top of this algorithms now under TRL 7 realization, for real-time analysis of stroke patients, and therapy for Multiple Sclerosis patients.

During my **PhD** I realized **real-time intelligent components** applied to wearables for medical and behavior analysis, situation assessment. The appositively and innovative method of machine learning proposed for real time classification on sensors data, is technological independent, and superior to the state of the art. Tested, by comparison, with U.C. Berkeley on their data my work surpasses of four time the U.C. Berkeley results in term of accuracy ($p < 0.01$). The applied part of my PhD Thesis was tested in real enviroments, and are done on Microsoft technologies (C#; dot Net;, Windows Phones)

December 2007: I took my *Master* in Computer Science with **honors** (110/110 cum Laude). The applied project done for the CS Master Thesis used latent semantic analysis for text analysis, the work was entirely done on top of Microsoft Technologies (C#; dot Net; SQL).

Right after the Master Thesis, I started to work as a Data Scientist and consultant for medium and big companies, on intelligent service, product design, and innovation consultancy

Teaching, Books, Articles.

2000 – 2017. Microsoft Certified Professional in 1999. The in-the-field experience on Microsoft Technology was partially transferred in the following University courses of the *Department of Computer Science* at the University of Milano Bicocca, in particular

- System Programming and dot Net programming (2008-Present), 4 credit course
- dot Net ambient (2003-2007), 6 credit course
- MS Windows Operating System(2000-2003), 6 credit course

2001-2003 I was responsible of the Microsoft AATP program (Advanced Academic Training Program) for the University of Bicocca at a faculty level, internship as part of the Rotor Initiative (shared source dot net) financed by Microsoft Redmond (10 months scholarship).

I am a Technical **writer** and author for a national and popular review about dot net technologies (Windows dot Net Magazine, Duke pub., Milano).

I published **two books** (see list of technical publications) one for the Windows dot Net Magazine editor, the Duke pub. of Milano, that sold very well, and the other for the UTET pub., Torino.

About me

I am an enthusiast believer of the importance of technology transfer and applied research. During all my career, besides being a consultant, I taught in Universities courses and to Companies the correct way to merge innovation with the most recent acquisition in artificial intelligence for products/service realization. I can be an useful assets as a data-scientist and an artificial intelligence expert, with experience both in products and services innovation, and in applied research problems. I favorably consider the possibility to live and work in North-Europe, In Germany-Austrian area, United Kingdom, United States, China and South-East Asia.

Curriculum Vitae

I am PhD and Post Doc at University of Milano-Bicocca in the area of Healthcare and Machine Learning and a consultant for Italian and European companies on Data science questions in B2B approach and also a consultant on Microsoft technologies. Here in more detail:

Consultant

- ✓ 2017-2019 Scientific Comitee of a Switzerland Company for technological sustainability; conducting sustainable and development projects in energy areas
- ✓ 2016-2019 Scientific Consultant for an Italian Startup focused on artificial intelligence for the medical areas and healthcare 4.0
- ✓ 2016 intelligent faceting system for one of the largest national cooperative enterprise association to automatically associate people and organizations for a Team Building product.
- ✓ 2015 data analysis in Indoor localization system to improve CRM information that exploits localization method indoor, for a for the large food retail organizations.
- ✓ 2013 I have done innovative human interface implementation working with Barco (Philips) using intelligent real time data analysis in the context of large European Project aimed to help people home bounded to exploit an intelligent interface and reach internet serviced
- ✓ 2011-2017 I am scientific advisor for one of the biggest international companies that realize commercial and scientific artificial satellites, as data analyst and also as Microsoft technology expert: their core technology for the satellites-tests were built on Microsoft Technology.

Project manager:

2017: Project Manager for CrossForHealth – motigravity (55.000 euro funds) for MS CP and stroke rehabilitation

2018: Project Manager for Permides – rehab (60 000 euro funds) medical device to treat for MS CP and stroke patient to sustain remote rehabilitation

2017: co-project manager of Whitehome. Whitehome is a project aimed to reconstruct an village district in order it can addressed aged and frail people exploiting ICT technologies, ambient sensors, personal sensors, RT-locating system, and intelligent data analysis to integrate social medical structure and at-home medical interventions.

2016-2017: Team Bulding Project for a large company syndicate the project serve to automatically match people and organizations for project management to generate new jobs

2011-2013 Project manager of the EasyReach Project AAL call 2 for real time data analysis. Dedicated to home bounded elderly for the so called silver- market. Funded by the Ambient

Assisted Living Joint Program in collaboration with European partners, including Philips-Barco (now Barco) the University of Potsdam–Berlin. The project received 2.9 Millions euros in fundings.

Fundings and management in European Research projects

2013-2018:

- ✓ CrossforHealth: 55.000 euros (ongoing project)
- ✓ Permides: 60.000 euros (closed)
- ✓ OWEIS project - Urban Innovation Action: 6 Million Euros (submitted)
- ✓ EasyReach - AAL call : 2.9 Million Euros (funded\closed)
- ✓ Gently Ageing-2 - AAL call 6: 4 Million Euros (project accepted by EU but not funded by MIUR for lack of national fundings)

University Teaching and Dissemination

2000 to the present. I teach *Microsoft* Technologies (Windows OS and Dot Net), wearables technologies and C#, at the University of Milano Bicocca at the Computer Science Dept. at University of Milano Bicocca as a Contract Professor. I am also teaching-assistant in Operative System and Internetworking courses (fundamental course). My course on wearables and C# is elective but is also one of the most popular course among our Computer Science Students (reach 100+ students every year).

1999-2007 Microsoft Consultant, Microsoft Certified, Technical Writer for technical magazines and I am also the main author of two books on Microsoft technologies (UTET pub., Duke pub.).

Education

2015: Lake Como School of Advanced Studies: "Cancer, Evolution and Complexity"

2014: Lake Como School of Advanced Studies: "Cancer, Systems and Complexity"

2007-2011: PhD in Computer Science (Machine Learning, Wearables, Datascience).

2007: Master degree in Computer Science with honors.

Work Experiences

2016-2018 CTO for Educational Factory, a startup company founded in Milano in the area of medicine and artificial intelligence

2015-2016 Team Bulding project. The project is requested by one the largest national cooperative syndicate association. The scope is to automatically people and companies, using a Social application, based on faceting and textual descriptions analysis.

2015-2016 brand analysis and brand watching for a company having a high-profile portfolio of Enterprise Companies (400+ customers).

2015 Real time localization using the QUUPPA antennas for indoor position system and data analysis. The solution was tested and implemented using C# and appositively developed methods of intelligent data analysis and prediction.

2015 Bee-Versity project: a Social App for a Smartphone for proximity marketing. Faceting and filtering methods was used to filter out non pertinent information.

2013-2014 EasyReach project. The project propose a sensor based interaction method and a TV interactive system for home bounded people. It was funded by AAL European Joint program call 2 for almost 2.9 Million of Euros.

2013 Data analysis for the ENEL company, the oldest and largest Energy National supplier in Italy, to enhance and improve their CRM system. The project involved other companies, for the web interface development and CRM integration, our core technology was used to improve the quality of the service.

2013 Analysis of sport activities using IMUs and wearables, in differential conditions: using muscle band stripes, a prosthesis, or in normal condition. The instrument was developed in C#, and was as adopted by the physiotherapists of the Gerardo Hospital of Monza (a University Hospital and Research Center) for their rehabilitation practice.

2012 and 2016 Behavioral detection methods using wearable sensors, realized using Microsoft technologies (C#, Azure PaaS/SaaS and Microsoft bends). The solution have been adopted by Contexta spinoff of the Polytechnic of Milan, now Monitra SA, Lugano (Switzerland).

2012 Automatic Gate and balance analysis using high precision wearables. The method implemented using sensor and artificial intelligence a popular test used by Physiotherapists, the Tinetti Test, to detect problem in balance and gate of patients. The implementation automates the analysis on movement data, not requiring the assistance or analysis of an expert, and works in realtime. It was implemented in dot Net/C#

2011 Home bounded TV. gesture detection real-time method and the relative solution, using one IMU sensors. The system was integrated in an interactive television embedded in a Social

Application and was part of the EasyReach project funded by AAL European Joint Program call 2 [5][6].

2010 Human fall detection. The product was realized in C#. The system interpret at real time data generated by a single wearable using three different sources of information projected in a space state. The algorithm has a confidence level of 90% [12][13].

14th April 2011 degree at the Doctoral School of Natural Science of the University of Milano-Bicocca

December 2010: PhD Thesis Defense. The newly invented classifier proved to reduce the error rate of 4 time compared to U.C.Berkeley; the results was published in [10] and received an award at AITAMI.

2007- 2011 PhD on Machine Learning and Data analysis on sensors.

14th December 2006: Master degree in Computer Science with honors, at the University of Milano-Bicocca

2006-2004 Master degrees in Computer Science and also trainer and consultant.

15th December 2004: Bachelor degree in Computer Science, at University of Milano-Bicocca

2000-2002 Microsoft Rotor Project (shared source CLI, i.e. dot Net) funded with a Microsoft Bursary. The results has been presented at Microsoft Redmond and at Microsoft Research Cambridge UK and published on the Academic Microsoft Site.

2002-2003 Responsible for the Microsoft program Advanced Academic Training Program Certification of the University of Milano Bicocca.

2005 *Active Directory as Directory service*, a book was sell as part of the Windows dot Net Magazine, Italian Edition in thousands of copies.

2002 *Technical Writer* for Windows dot Net Magazine, Italian Edition

2002 The book "*Windows 2000 & .NET*" in Action by UTET, Torino was published.

2007 to 2017 . Contract professor in dot Net technology at the University of Milano Bicocca. The course is elective but gathers every year more than 100 students.

2000 to 2017 contract professor at the department of computer science, in Microsoft technologies and Sensor technologies.

From 2000 to 2007 I designed and taught the 6-credits course on Microsoft Windows Operating Systems and Dot Net supported also by publication ("*Windows 2000 and dot Net in Action* ", S. Pinardi, T. A. Aruanno, R. Bisian, UTET pub).

1999 Microsoft Certified Professional

Public Fundings and European Projects

- 2015-2017 I moved to REDS lab of the University of Milano-Bicocca focused on sensors, net and data analysis for devices and industry. As part of this group I sent a proposal of 0.9 million in 2018 for the interreg SHH@H project, in the context of intelligent building. Lombardy Swiss. And a proposal 6 Million Euro in collaboration with the communality of Rho Milan (site of the Expo 2015) for a project in the context of the Urban Innovation Action program, for medical and social integration of frail people with local service thanks to RT-Locating System, sensors and data intelligence.
- From October 2011 to fall 2013 I acted as project manager of the EasyReach project (AAL JP call2). The project, received funding for approximately EUR 220,000 for the department. and a total funding for the consortium was of EUR 2,924,173. It was a takeover of an existing project defined in 2008, that suffered from dependence on old technologies. It was adapted and redesigned, rethinking the user interfaces and gestures recognition aspects. The project obtained a positive evaluation and fundings by the Assisted Living Joint Program call 2 and the Italian Ministry of Instruction University and Research after the project redesign under my management.
- During 2013 and 2014 I presented two EU funding requests at the "Ambient Assisted Living Joint Program", the European Funding Program for healthcare and ageing.
 - at the 2013 call, I presented a project called Gently Ageing Project to support job activities and socialization through ICT, for retired and older people.
 - At the 2014 call, I presented a project of elderly monitoring for healthcare through sensors and ubiquitous mobile systems integrated with mobile communication systems, for the active involvement of older people a smart city with the purpose of social medical assistance. The proposal of the call in 2014 passed the review, with a request of € 400,000 for my department and a total of 4 million euro funding for the consortium. The success rate of these calls are about 3%.

In attachment my Scientific Curriculum

Milano, 10th June 2019

Stefano Pinardi, PhD

Stefano Pinardi, PhD - Curriculum Vitae and Backgrounds



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Research Activities

- 2018-2019: with CrossForHealth fundings in collaboration with the other Eu SMEs we are projecting and constructing an instrument for MS CP Stroke patient rehabilitation using machine learning and sensors.
- 2017-2018: with Permides fundings we are constructing an instrument for rehabilitation for Multiple Sclerosis Patient using machine learning and sensors.
- 2016: in collaboration with Mondino Neurologic Hospital to understand therapy effects, we are measuring the distance of the feature data in respect of a model of evolution: the idea is to study the personal adaptation of children to their injury. A Kinect will be used to measure the body mechanics during therapy in presence of hospital therapists, the bend and bracelets are used to measure the effects of therapies at home and in daily activities after therapy session.
- 2012- 2016 I developed a new man machine interfacing systems for the elderly based on gestures using only one inertial sensor, and big data analysis, introducing a new metaphors of interaction with the Smart TV (no mouse and keyboards) for Elderly. My gesture classifier used a new approach (under patent process) particularly fitted and sensible to adapt to aged people, canceling the effect of pathological tremors and uncertainty due to pathologies and aging. In the same context I introduced and created a model for a Smart City for elderly to connect

seniors and youth in a local contexts of socialization to help local economic exchange. Both the application was realized in real environment and showed in AAL JP demo live session at Vienna, Bucarest, Noorkoping. The related publications are pending for patent protection issues.

- In 2012-2014 I developed tested and realized an innovative method and algorithms based on real time data analyses, for gesture recognition using one inertial sensors, in a monomodal approach, now under patents process. Some related publications are pending for NDA questions (Non-Disclosure Agreement).
- In 2012-13 I was part of the HCIM project (Health Care through Intelligent Monitoring) funded by Italian MIUR (Ministry of Education, University and Research) and held at the University of Milano Bicocca. The project aims to develop a system of non-intrusive monitoring to identify the behavior and physical conditions of the elderly at home and in nursing homes assisted. I was also professor in the related Course which lasts about one year, aimed at create and train specialists in the area of elderly healthcare. The selected students were from four different areas: medicine, physics, computer science and psychology. HCIM stage activities developed and test a solutions for mobile sensors on two different groups of seniors, giving evidence of the improvements in the Human Interface approach.
- In 2007-2011 I was part of the SINDI project (Safe and Independent) at University of Milano-Bicocca during my PhD. The project wanted to monitor and connect Seniors, using the Zeegee sensors, early predict the medical state of the person and therapeutically intervene. My personal involvement was related to movement activities recognition, fall detections, and adaptation and rethinking of the Tinetti Test in a mobile and ubiquitous environment using innovative machine learning methods.
- In 2012 I worked for Contexta Ltd a startup company of the Polytechnic of Milano: the startup was specialized in situation awareness, I worked on classification of movements using off-the-shelf sensor technologies.
- 2010 I worked 12 months (one day a week) on a pilot project designed with the Istituto Neurologico Mondino (Pavia – Italy) a neurologic hospital, with 2 researcher PhD a one PhD, MD (now at the Don Gnocchi Hospital) to measure and detect posture problem in children affected by severe physical and cognitive disabilities caused by Cerebral Palsy. The scope of the research was to measure the allegedly positive effects of pet therapy (horse riding as medical therapy) on these children in particular the effect on trunk posture, introducing new way of

features detection and data analysis. We used wearables to analyze human posture during horse riding activities.

- 2011 In my PhD thesis activities I have shown the correlation between classification space for personal wearable sensors and the structured semantics, creating a new method of classification of sensor data that lowered of 4 times the error rate of the U.C Berkeley researchers on to their own data (see [8])[10]. Some authors had suggested the idea that brain structure for language and sequences of movements use similar analytical structure (see also Scientific American 2010). My work shows that this connection not only is possible but that it can also be used improve feature analyses. The results obtained are independent form technology and general enough to be used in any multiclass classification approach, not only on sensors.
- From 2007 to 2016: contract professor of Microsoft Windows and dot Net technologies at the Department of Computer Science, University of Milano – Bicocca.
- From 2000 to 2006, teaching assistant of Windows Operating Systems at the Department of Computer Science, University of Milano-Bicocca. I wrote tech material that was published by UTET the main scientific editor in Italy, and by the Italian publisher of “Windows dot Net magazine” the international technical review.
- In 2000 I was part of the Rotor research project promoted by Microsoft Research held at Cambridge (UK) and Redmond (USA), relative to dot-Net framework internals. I developed an automatic instrument for the analysis and visualization of the processes mechanisms of Rotor (dot net) framework, which required, among other things a run time code injection methodology. The results were presented at Microsoft Redmond and Microsoft Research Cambridge UK and published on the Microsoft Academy Program Sites.
- From 1998 to 2003 I worked as Microsoft consultant with a focus on System Engineering and C # /.NET in contact with the most prominent personality of the area. I also published technical articles on magazines of general circulation and books for Utet Turin, Duke publisher, and Microsoft Academy Site.

Post-Doc Courses

- ✓ *Workshop and School on Cancer Systems and Complexity*, 2015, Lake Como School of advanced Study, Como Italy.

- ✓ *Workshop and School on Cancer Systems and Complexity*, 28th September -2th October, 2014, Lake Como School of advanced Study, Como Italy.

- ✓ *Motor Functional Evaluation and Rehabilitation Course* as auditor at the Department of Biomedical Engineering, Politecnico di Milano, 2nd semester, 2011

Academic Career

- 2017-present: Member of the scientific committee of the laboratorio di sostenibilità a swiss laboratory for social buildings and manufacturing 4.0 aspects that can be improved or innovated thanks to ICT and artificial intelligence research.
- 2011-2015 Post Doc: 4 year post-doc at the University of Milano-Bicocca dept. computer science, about the uses of device for Elderly enhanced by machine learning in the context of the ALL (ambient assisted living) Joint Program fundings call 2.
- 2011: I took my PhD in in Computer Science at the University of Milano-Bicocca, School of Science, the 08/02/2011 with an original Thesis that propose a new method for an instance-based multi-classifier, inspired by the idea of a “grammar” of movements . The thesis improved by 4 times the error rate of U.C .Berkeley Researchers data on their own databases. It received two positive reviews from the reviewer of the Ulster University (UK) and was examined by a ministerial commission in Italy Italian, receiving a rating of excellent. A relative publication was awarded as best paper at AITAMI '10.
- 2006: I received my MS degree in Computer Science with honors at the University of Milano Bicocca, on 14/12/2006, with the vote of 110/110 Cum Laude, with a thesis where Latent Semantic Indexing was texted in polysemy and synonymy problems in text classification.
- I have the following *Microsoft Certified Professional certification*:
 - Administering Microsoft NT4.0 (15/5/2000)
 - Internetworking with Microsoft TCP/IP (4/05/1999)
 - Supporting Microsoft Windows NT 4.0 - Core Technologies (28/05/1999)
 - Instruction Presentation Skill Day (11/06/1999)

Scholarships

I received two scholarships:

- A 36 months scholarship from 1/11/2007 to 31/10/2010, after a public selection, to support my PhD at the University of Milano-Bicocca sponsored by the Ministry of Instruction, University and Research (MIUR).
- A 10 months scholarship by Microsoft EMEA for the Rotor project held in Cambridge (UK) and Redmond (US), from 09/18/2000, of 10.000 euros.

Seminars and Speeches by Invitation

I have been invited to show the results of my work and the datascience methods related to my research on mobile systems, wearables, human-machine interfaces, and medicine

- Mission Architect 2.0. Palazzo Pirelli Milano, invited as speaker, 7th November 2017
- Whitehome project: a Village a New future. Comunità del Piambello al Maglio di Ghirla. 17th June 2017
- Stefano Pinardi- *A New Approach to Healthcare ?* - Workshop at the ICOM International College of Osteopathy Medicine, Milano, Italy, 14th November 2016
- Stefano Pinardi – *Smart and Social for Gently Ageing in Ambient Technology* - @ITIM 15h National Congress held at Niguarda Hospital, Milano, Italy, 27th February 2015
- Stefano Pinardi, *Elderly Wellbeing and Technology* - @ITIM 14th National Congress held at the Bruno Kessler Foundation, Trento, Italy, 6-8th November 2014
- Stefano Pinardi, *Home TV Solution for Home bounded People, Gestures to interfaces* – Ambient Assisted Living forum 2014 , AAL Solution Deployment seminar, Bucharest, Romania, 9-12 September 2014
- Stefano Pinardi, *User Interfaces for Eldelry* , Workshop SEG AAL & CENELEC Technical Committee 100X of EU - Bruxelles, Belgium, 10th March 2014
- Stefano Pinardi , *A mobile solutions for the senior citizen of the today's interconnected world*, AAL Forum 2013 “Impacting individuals, society and economic growth”, workshop , 24th -26th September 2013, Norrköping, Sweden
- Stefano Pinardi, *Independent Living for the Elderly: Problems, Technologies and New Opportunities*, 10th Conference on eGovernment – eHealt (eGeH '13), Desio, Italy - 9th July 2013

- Stefano Pinardi , Roberto Bisiani, *Independent Living for the Elderly, the ICT approach: myth or possibility?*, 11th Symposium on Artificial Intelligence of the Italian Association for Artificial Intelligence (AI*IA 2010) , Brescia, Italy, 1st-3th December 2010.

Fellowships

- ✓ Member of the Switzerland *Laboratorio della sostenibilità* from 2017
- ✓ Member of ISAI, *International Society of Applied Intelligence*, from 2014
- ✓ Member of the @ITIM, *Associazione Italiana di Telemedicina e Informatica Medica*, from 2014
- ✓ Member of the ISPGR, *International Society of Posture and Gate Research*, from 2009

Awards:

- Best Paper Award, AITAMI 10, Kuala Lumpur, 2010

Peer Reviews:

- *Future Generation Computer System Conference*, 2014
- *Mobile Learning*, Michelle Pieri (curator), Bari, Italy, Progedit, 2012.

Seminars and Courses as Auditor

- In 2011 I participated as an auditor at two biomechanics courses at the Polytechnic of Milan on the physiology and functional evaluation of the movement.
- I participated as an auditor in 2010 at two conferences by invitation on man-machine interactions and mobile technologies at Microsoft Research Cambridge (UK).
- I participated from 2000 to 2002 at two Crash Course in Cambridge (UK) and Redmond (USA) about dot Net and ROTOR technologies, and at various dot NET training programs promoted by Microsoft in the USA and Europe. The course participation was only by invitation.

Teaching:

- From 2007 to 2017: contract professor at the University of Milano Bicocca on Dot Net and Microsoft technologies.

- 2012: HCIM courses (Master), ergonomics and ubiquitous mobile systems for the elderly.
- From 2000 to 2004, teaching assistant in Windows Operating Systems, producing educational material that has been published by Utet (see list of publications). The material about Active Directory has been published by Duke ed., the Italian publisher of Windows.
- 2000-2002 I was in charge of the AATP (Academic Advanced Training Program) at the University of Milano-Bicocca, in a framework agreement between the University and Microsoft EMEA to give a access to Microsoft certifications to our students at faculty level.
- From 2007 to 2016 I followed about 30 CS and MS thesis in computer science in the area of data science, big data, and sensors with average an evaluation of "excellent" (the maximum) four of them reach an evaluation of "exceptional" (cum laude).
- From 1998 to 2003 I wrote a few technical articles, monographs, and books on Microsoft technologies for Windows dot net Magazine.

Scientifics Publications

- [1] Sartori F, Melen R, Pinardi S, (2018) , *Cultivating virtual communities of practice in KAFKA*, Data Technologies and Applications, Vol. 52 Issue: 1, pp.34-57, <https://doi.org/10.1108/DTA-02-2017-0008>
- [2] Pinardi S Di coste F La Pietra G, *Medicine 4.0 New Approaches to Personalized Training Programs for Chronic Patients*, Neuromi 2017, Milano 15th September 2017
- [3] S.PINARDI, F.SARTORI, R.MELEN, *Integrating Knowledge Artifacts And Inertial Measurement Units sensors for decision support*, KITA, Portugal, 2016.
- [4] S.PINARDI, G. CASTELNUOVO, *Automatic Situation Assessment in Multidimensional Inertial Sensor Spaces for Illness Monitoring through Behavioral Analysis*. Sensors (submitted). ISSN 1424-8220. 2016 (submitted) .
- [5] S.PINARDI, M.DOMINONI, *Gestures as Interface for Home TV Digital Divide Solutions through Inertial Sensors*. IEA/AIE 14, Kaohsiung Taiwan, June 2014.
- [6] BISIANI, R., MERICO, D., PINARDI, S., DOMINONI, M., CESTA, A., ORLANDINI, A., et al. (2013). Fostering Social Interaction of Home-Bound Elderly People: The EasyReach System. In Recent Trends in Applied Artificial Intelligence (pp.33-42). Springer Verlag. doi: 10.1007/978-3-642-38577-3_4
- [7] DOMINONI M., PIERI M., PINARDI S. , *Longlife Learning Network*, IADIS International Conference E-Learning, July 2011, Rome, IT
- [8] PINARDI S., RIVA G., DOMINONI.S, BUCCOLI F.V, M.BONDI, *Un ambiente didattico in Moodle con l'uso dei "Live services"*, In C.B. Matteo Baldoni (a cura di), E-learning con Moodle in Italia: una sfida tra passato, presente e futuro (pp. 195-202). Seneca Edizioni, June 2011
- [9] FUGINI M.G., PINARDI S., RAIBULET C: *Smart Solutions for Risk Prevention through Analysis of People Movements*. GPC Workshops, May 2011: 3-13, Oulu, Finland
- [10] PINARDI S. (2011), *Movements recognition with intelligent multisensor analysis*, PhD Thesis, Università degli Studi di Milano-Bicocca, Feb 2011
- [11] MILEO A., PINARDI S., and BISIANI R., *Movement Recognition using Context: Lexical Approach Based on Coherence*, MCR 2010, Lisbon, August 2010.
- [12] PINARDI S., BISIANI R., *Movement Recognition, a Lexical approach*, Proceedings of the 6th Int. Conf. on Intelligent Environments, Vol 8, pp.170-177, IOS Press 2010, Kuala Lumpur, Malaysia, 18-19 July 2010.
- [13] MILEO A., MERICO D., PINARDI S., BISIANI R., *A Logical Approach to Home Healthcare with Intelligent Sensors Network Support*, *Computer Journal*, 2010, doi:10.1093/comjnl/bxn074.
- [14] PIERI M., DOMINONI M., PINARDI S., *Yahoo!Answers and Learning Communities*, *Information Sciences for Decision Making*, TICEMED, 2010
- [15] PINARDI S., DOMINONI M., RIVA G., *Omega Network: an Adaptive Approach to Social Learning*, ISDA2010, December 2010
- [16] DOMINONI M., PINARDI S., BUCCOLI F., *Ambiente didattico collaborativo in Moodle con l'uso dei Live services*, MoodleMot 2009.

Technical Papers:

Books

[15] PINARDI S., COLOMBO E., ARUANNO T.A., BISIANI R., *Active Directory as a directory service*, (LDAP), Duke ed., October 2005

[16] PINARDI S., ARUANNO T.A., BISIANI R., *Windows 2000 & .NET in Action*, UTET, Torino, 2002.

Monographs

[17] PINARDI S., FEDRICI A., BISIANI R., *Distributed Programming Using C# : a Case Study*, Microsoft, 2003.

[18] ARUANNO T.A, PINARDI S., FEDRICI A., BISIANI R., *Processes, Threads and Synchronization Matters in Windows .NET and others NT Based Operating Systems*, Microsoft, 2003.

[19] PINARDI S., COLOMBO E, ARUANNO T.A., BISIANI R, *Active Directory Domains and AD programming with ADSI and .NET framework*, 2003, Microsoft

Technical Articles (In Italian)

[20] PINARDI S., ARUANNO T.A., *Modelli architetturali, threading e sincronizzazione negli ambienti Win32*, parte 1 e 2, in Windows &.NET Magazine, Duke ed., Dicembre e Gennaio 2003.

[21] PINARDI S., EMANUELE C., *Active Directory in Action*, parte 1, 2 e 3, in Windows &.NET Magazine, Duke ed. s.r.l Marzo, Aprile, Maggio 2003.

[22] PINARDI S., FEDRICI A., *Programmazione distribuita in C#, un case study*, parte 1 e 2, in Windows &.NET Magazine, Duke ed., Ottobre, Novembre 2003.

Translations (from English to Italian)

[23] TANENBAUM, ANDREW S., *Architettura dei computer : un approccio strutturato*, Prentice Hall international - Torino : UTET libreria, 2000. - XV II, 666 p. ; 24 cm. Trad. di Gigliola Corneo, Stefano Pinardi - 4. ed. 2000

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