

**Dr. Giovanni Pilato**  
**Curriculum Vitae et Studiorum**

**PERSONAL DATA**

Giovanni Pilato  
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Date of birth: [REDACTED]  
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**CURRENT POSITION**

- Research scientist at “Istituto di Calcolo e Reti ad Alte Prestazioni” (High Performance Computing Networks Institute) of the Italian National Research Council.

**EDUCATION**

- **September 2013:** Proclaimed “Cultore della Materia” for the Subject “Web Data Mining” by the Faculty of Computer Science of the University of Palermo, Italy
- **August 2010** - Cambridge in English for Speakers of Other Languages (ESOL) - First Certificate in English Council Europe Level B2 (Upper Intermediate)
- **February 2001** “Dottore di Ricerca” (Ph.D.) degree in “Electronics, Computers and Telecommunications Engineering”, University of Palermo; Doctorate Thesis: “Artificial Intelligence Techniques for Data Mining”;
- **February 2000:** Proclaimed “Cultore della Materia” for the Scientific Sector “Sistemi di Elaborazione delle Informazioni” by the Faculty of Engineering of the University of Palermo, Italy
- **July 1997** “Laurea in Ingegneria Elettronica” (MSEE) “summa cum laude” degree, University of Palermo; Thesis: “Automatic Learning of the Activation Function and Definition of a Performance Quality Index in Feed-forward Neural Networks. Design of a Prototype”

**Other Qualifications**

- **April 2011:** he has been evaluated suitable for the position of senior research scientist for the scientific area “Computer Science and Information Engineering”
- **December 2000:** he passed the exam for “Abilitazione all’insegnamento” (teacher training exam) for teaching “Electronics” in Italian secondary schools.
- **February 1998:** he passed the national exam for the qualification of “Professional Engineer”

**SCIENTIFIC RESEARCH ACTIVITY**

**Research Activity**

- Sub-symbolic techniques for cognitive robotics and social sensing;
- Development of framework for a robotics emulating “intuition” and “creativity” for improving human-robot interaction;
- Sub-symbolic techniques for web mining, automatic text classification and natural language processing.

## Participation to Scientific Research Projects

- **2018-present** Member of the local operating unit of the “Formazione FSE 2018” project, dealing with “Tutoring for young researchers”
- **2018-present** Member of the local operating unit of the “AMICO” project (“Assistenza Medica In COntextual awareness”), dealing with a robotic architecture for assisted living of patients who had heart disease
- **2015:** Member of the project “IMPULSO”, financed by dal Ministero dello Sviluppo Economico nell’ambito del PON FESR Ricerca e competitività 2007-13, obiettivo 4.1.1.2 “Aree tecnologico produttive per la competitività del Sistema” azione 1 “Progetti di innovazione industriale e interventi collegati”
- **2014-2015:** POR 2007/2013 Regione Siciliana – Misura 4.1.1.1 – Member of the project “MIRCO – MicroRna in Clinica Oncologica”, involved in the following tasks:
  - OR2 - Database system
  - OR3 - Creation and implementation of analysis and data integration systems
  - OR8 - Monitoring and evaluation of project results
- **2013-2015:** Member of the project PON 01\_00683 SIGMA “Sistema Integrato di sensori in ambiente cloud per la Gestione Multirischio Avanzata”
  - OR3 – Study and design of a cloud-based platform for data collection and processing
  - OR 7 – Demonstration and field trials
- **2011-2015:** Member of the PON01\_01687 – SINTESYS (Security and INTElligence SYStem) project, involved with the following WPs:
  - OR1:Sintesys Reference Architecture & Models
  - OR3:Models, methodologies and techniques for deep textual semantic analysis
  - OR7: Models, methodologies and techniques for information fusion
  - OR9:Sintesys framework
  - OR11:Integrated Security Intelligence System
  - OR12:Pilot
- **2013-2014:** Member of the project “Bando Industria 2015 “Made in Italy” MI01\_00424- “Piattaforme intelligenti di sequenziamento per analisi oncogeno mica e diagnostica personalizzata del cancro e malattie genetiche”, involved in the following tasks:
  - PL28: Task 10.1 - Remote control and planning for mechanotronic platform;
  - PL29: Task 10.23.4 - Remote management and analysis of sequencer data on distributed web portal /repository;
  - PL 30: Task 11.1.2 - Software development for robotic integration and data acquisition
- **2012-2013:** Member of task activity OR4.4 (Distributed Data Fusion) and OR 4.5 (Short term forecasting and scenario analysis) for the “INSYEME – Integrated System for EMERgency” project;
- **2007-2011:** Member of the FRASI (FRamework for Agent-based Semantic-aware Interoperability) project, concerning a reference architecture for the definition of dynamic and collaborative software systems. These systems are modular and ad-hoc configurable, with introspective capabilities, based on agents for the management and the intelligent use of information and services in a global and integrated manner.

Dr. Pilato dealt in particular within the coordination of the following WPs:

  - 4.3 "Innovative methods, borrowed from artificial intelligence and neural networks, for tasks of intelligent data analysis, knowledge discovery and data mining,
  - 4.4 "Sub-symbolic methods for the automatic classification of pages and Web resources."
  - 7.3 "Algorithms and methodologies for the automatic construction of semantic queries".

- **2009:** Member of the PRIN (Programma di Ricerca scientifica di rilevante Interesse Nazionale) project entitled: “ALSLab - models, aggregation and visualization with Web 2.0 methodologies of the materials of the Atlante Linguistico della Sicilia (Language Atlas of Sicily)”
- **2008:** Member of the PRIN (Programma di Ricerca scientifica di rilevante Interesse Nazionale) project “Artificial Intelligence Methodologies for the treatment and analysis of data (ethnographic, spoken, iconographic) belonging to the Linguistic Atlas of Sicily (ALS). Intelligent interfaces for querying the information system of the ALS.”
- **2006-2008 :** Member of task activity 8 (Models and tool for cooperation and integration of data and services) of the project “TOCAL.IT” (Tecnologie Orientate alla Conoscenza per Aggregazioni di Imprese in Internet);
- **2002-2006 :** Member of the local operating unit of the TESCHET project, dealing with:
  1. Methodologies for features extraction of web data
  2. Development of an intelligent agent based system for the Information Retrieval on Web
- **2005:** Member of the project “Agenti universali operanti su ambienti non noti a priori”
- **2002 - 2003:** Member of the local operating unit of the “Cofin 2002” project, dealing with “Study and designing of embedded circuits for the analysis of experimental data using high performance algorithms”;
- **1998-2000:** Member of the local operating unit of the “Designing of Digital Neural Architectures” project;
- **1998:** Member of a PRIN project “Design of Eterogeneous Embedded systems for image processing”
- **1997-1998:** Member of the project co-financed by the Italian Ministry of the University and the Research: “Design of composite systems”

## Awards

- **2018:** “Emerald Literati High Commended Paper Award 2018” for the paper “E. D’Avanzo, G.Pilato - Using Twitter sentiment and emotion analysis of Google Trends for decisions Making”, Program, Vol 51, N.3, 2018
- **2017:** “BICA Society Research Prize” for the research presented to the Biologically Inspired Cognitive Architectures (BICA 2017) /First International Early Research Career Enhancement School on Biologically Inspired Cognitive Architectures and Cybersecurity, Moscow, Russian Federation, 1 - 5 August 2017
- **2014:** “Recognition of outstanding contribution award” for serving as Program Co-chair for the 2014 IEEE International Conference on Semantic Computing, Irvine, California, US
- **2013:** “Certificate of Appreciation” for serving as Program Co-chair for the 2013 IEEE International Conference on Semantic Computing, Irvine, California, US
- **2009:** CNR award for “Innovative results of particular excellence and strategic relevance”;

## UNIVERSITY TEACHING ACTIVITY

- **2018-present:** professor of “*Web Data Analytics*” for the “Computer Science” degree course of the Palermo University – Scuola di Scienze di Base e Applicate, Italy.
- **2014-2017:** professor of “*Information retrieval and semantic web*” for the “Computer Science” degree course of the Palermo University – Scuola di Scienze di Base e Applicate, Italy.

- **2012-2014:** professor of “*Information Systems*” for the “Management Engineering” degree course of the Palermo University Engineering Faculty, Italy.
- **2011-2014:** professor of “*Web Data Mining*” for the “Computer Science” course of the Palermo University Science Faculty, Italy.
- **2005-2008:** professor of “*Web Laboratory*” for the “Foreign Languages for the Web” course of the Palermo University Liberal Arts faculty, Italy.
- **2005-2008:** professor of “*Fundamental Computer Architectures*” for the “Computer Science Engineering” course of the Palermo University Engineering Faculty, branch of Agrigento, Italy.
- **2004-2005:** professor of “*Advanced Computer Laboratory*” for the “Modern Philology” course of the Palermo University Liberal Arts faculty, Italy.
- **2001-2005:** professor of “*Fundamental Computer Architectures*” for the “Computer Science Engineering” course of the Palermo University Engineering Faculty, Italy.
- **2004:** lecturer for the exercitations of “*Intelligent Agents*” for the Doctorate School of the “Italian Computer Science Engineering Group” held in Benevento from 13<sup>th</sup> to 22<sup>th</sup> September 2004, Italy.
- **2003-2004:** professor of “*Computers*” for the “Electronics Engineering” and “Computer Science Engineering” courses of the Palermo University Engineering Faculty, Italy.
- **1999-2000:** lecturer for the “*ML*”, “*Lex*”, “*Yacc*” seminars of the “*Computer Languages and Compilers*” course for “Electronics Engineering” and “Computer Science Engineering” of the Palermo University Engineering Faculty, Italy.
- **1998-2000:** lecturer for the “*C Language*” seminars of the “*Computers*” course for “Electronics Engineering” and “Computer Science Engineering” of the Palermo University Engineering Faculty, Italy.
- **1998-1999:** lecturer for the “*C++ Language*” seminar of the “*Computer Languages and Compilers*” course for “Electronics Engineering” and “Computer Science Engineering” of the Palermo University Engineering Faculty, Italy.

## LIST OF PUBLICATIONS

- <https://orcid.org/0000-0002-6254-2249>

I hereby authorize the use of my personal data in accordance to the GDPR 679/16 - "European regulation on the protection of personal data".

Palermo, 18 May 2020



Giovanni Pilato