



Piergiorgio Alotto

Date of birth: 20/02/1968

Nationality: Italian

Gender: Male

CONTACT

 Italian Embassy in Berlin,
Hiroshimastraße 1
10785 Berlin, Germany
(Work)

 piergiorgio.alotto@esteri.it

 (+39) 34783773683

 (+49) 1705076635

WORK EXPERIENCE

01/03/2023 – CURRENT Berlin, Germany

Scientific Attaché Italian Ministry of Foreign Affairs and International Cooperation - Italian Embassy in Berlin

1. support and development of bilateral cooperation, both in negotiations and implementation of executive protocols;
2. promotion of the Italian scientific and technological system;
3. information on science ecosystems and science policies implemented by the countries of accreditation;
4. collaboration with the INNOVITALIA IT platform and the RISeT information network;
5. promotion and management of contacts between Italian and Italian-born researchers working abroad and foreign researchers;
6. implementation of promotional initiatives concerning Italian science and technology;
7. coordination with the Italian Cultural Institutes for the realization of promotional events of Italian scientific culture;
8. coordination with Embassy Commercial Offices, ICE Agency Offices and local Chambers of Commerce for the promotion of Italian high-tech industry and startups.

08/01/2018 – CURRENT Padova, Italy

Full Professor of Electrical Engineering University of Padova

Research, teaching and third mission activities in electrical engineering with emphasis on computational electrical engineering and automatic and optimal design of electromagnetic devices.

Business or Sector Education | **Address** Padova, Italy | **Website** www.unipd.it

01/10/2005 – 07/01/2018 Padova, Italy

Associate Professor of Electrical Engineering University of Padova

Research, teaching and third mission activities in electrical engineering with emphasis on computational electrical engineering and automatic and optimal design of electromagnetic devices.

Business or Sector Education | **Address** Padova, Italy | **Website** www.unipd.it

01/11/1992 – 31/07/1994 Oxford, United Kingdom

Software Development Engineer Vector Fields Ltd

Development of finite element codes for electromagnetic problems.

Business or Sector Professional, scientific and technical activities | **Address** Oxford, Italy

01/12/1996 – 30/09/2005 Genova, Italy

University Researcher in Electrical Engineering University of Genova

Research, teaching and third mission activities in electrical engineering with emphasis on computational electrical engineering and automatic and optimal design of electromagnetic devices.

Business or Sector Education | **Address** Genova, Italy | **Website** www.unige.it

EDUCATION AND TRAINING

01/11/1993 – 31/10/1996 Genova, Italy

PhD in Electrical Engineering University of Genova

Address Genova, Italy | **Website** www.unige.it | **Thesis** Metodi stocastici innovativi per l'ottimizzazione di dispositivi elettromagnetici

01/10/1987 – 07/10/1992 Genova, Italy

MSc in Electrical Engineering University of Genova

Address Genova, Italy | **Website** www.unige.it | **Field of study** Ingegneria Elettrica | **Final grade** 110/100, lode e dignità di stampa | **Thesis** Formulazione ad elementi finiti del modello di Preisach per lo studio dell'isteresi magnetica

LANGUAGE SKILLS

MOTHER TONGUE(S): Italiano

Other language(s):

Inglese

Listening
C2

Reading
C2

Spoken production
C1

Spoken interaction
C1

Writing
C1

Tedesco

Listening
C2

Reading
C2

Spoken production
C1

Spoken interaction
C1

Writing
C1

DIGITAL SKILLS

Social Network | Professional knowledge of office packages - (Open Office, MS Office) | Databases: Oracle, MySQL, Access | Programming languages: C, C++, Fortran, Python, Julia | Embedded platforms: ESP32 | Mathematical environments: Matlab, Mathematica

ADDITIONAL INFORMATION

Publications

Full list of publications

Author of over 170 publications surveyed on the Scopus database with over 2700 citations and an h-index of 25.

The complete and constantly updated list of publications is available at :

Link <https://scholar.google.it/citations?user=Hknd92AAAAAJ&hl=en>

Networks and memberships

CURRENT United States of America

IEEE Senior Member of the IEEE

CURRENT

International Compumag Society Member of the International Compumag Society.
Member of the International Steering Committee of the International Compumag Society (elected position, from 2008 until 2014)

01/10/2012 – 30/09/2016

EERA (European Energy Research Alliance) Member of the EERA (European Energy Research Alliance) Steering Committee for the Joint Programme on Energy Storage.

Conferences and seminars

07/07/1991 – 19/07/2019

Compumag international conference series Participated as a speaker and coordinator of oral and poster sessions at the biennial Compumag international conferences.

13/11/1996 – 16/11/2016

CEFC international conference series Participated as a speaker and coordinator of oral and poster sessions at the biennial Compumag international conferences.

21/09/1998 – 28/02/2023

Other international conference series Participated as a speaker and coordinator of oral and poster sessions at the international conference series IGTE, OIPE, Coupled Problems, EMF.

Management and leadership skills

Deputy Head of the Department of Industrial Engineering, University of Padova From 2019 to 2023
Deputy Head of the Department of Industrial Engineering, University of Padova

National and international scientific collaborations

Full list of collaborations

Many of the research activities have been developed as part of collaborations with university and industrial research groups or as part of national or international projects. Such collaborations have often led to the publication of joint papers (as evidenced by the 'full list of publications') with colleagues from other universities and Italian and foreign companies, including:

Foreign universities and research centers:

1. TU Delft (Netherlands)
2. TU Graz (Austria)
3. Ecole Centrale de Lille (France)
4. University of Oxford (United Kingdom)
5. University of Minneapolis (United States)
6. Pontifical University of Parana (Brazil)
7. Federal University of Parana (Brazil)
8. University of Zonguldak (Turkey)
9. Polytechnic University of Bucharest (Romania)
10. Technical University of Cluj-Napoca (Romania)
11. Labein (Spain)
12. Virtual Vehicle Research Center, Graz (Austria)
13. Inria Saclay (France)

Italian universities and research centers:

1. Polytechnic of Turin
2. Polytechnic of Milan
3. University of Naples
4. University of Pavia
5. University of Udine
6. National Institute of Metrological Research (INRIM)
7. IMA CNR (Pavia)

Companies

1. Vector Fields Ltd (United Kingdom)
2. Philips (Netherlands)
3. Ansaldo Ricerche (Italy)
4. Ansaldo Transportation (Italy)
5. ABB Servomotors (Italy)
6. Tesi Srl (Italy)
7. Electricité de France (France)

Industrial research contracts

List of industrial research contracts

Parallel to strictly scientific activities, he has supervised automatic and optimal design activities of electrical and magnetic devices under research contracts with some national industries such as:

1. Laben SpA (aerospace sector)
2. ABB Ricerca Srl (induction motors)
3. Ansaldo Trasporti SpA (power systems for innovative mass transit vehicles)
4. Ansaldo Ricerche Srl (resistive and superconducting magnets)
5. Tesi Srl (medium voltage joints and terminals)
6. Esaote SpA (magnets for biomedical applications)
7. Itel Srl (electromagnetic compatibility)
8. Eurocontrol SpA (induction motors)
9. Inarca SpA (electrical connectors)
10. SIC Srl (electrostatic precipitators)
11. Greifenberg Srl (ropeways)
12. Leonardo-Finmeccanica (photovoltaic panels for aerospace applications)
13. Alstom SpA (railway safety systems)
14. Italcementi SpA (materials for WPT systems)
15. Aristoncavi SpA (components for WPT systems)

Editorial Boards

CURRENT

● **Associate Editor di IET Science, Measurement & Technology**

CURRENT

● **Associate Editor di Electronics (Sezione "Microwave and Wireless Communications")**

International project evaluation

2021

● **German Research Foundation (DFG)**

Evaluator for a Collaborative Research Centre/Transregio project.

2021

● **Austrian Science Fund**

Evaluator for a Collaborative Research Centre/Transregio project.

2015

● **Research Council della K.U.Leuven, Belgio**

2012

● **Research Foundation, Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO)**

2009

● **Research Council della K.U.Leuven, Belgio**

National project evaluation

2020 – 2023

● **MUR**

Evaluator of ARS2017 projects

2020

● **Regione Toscana (Tuscany Region)**

Evaluator of RS2020 projects

2020

● **Provincia di Trento (Trento Province)**

Ex ante evaluator of an industrial research project.

2015

Regione Campania (Campania Region) - CCLab projects

Evaluator of CCLab Projects established by Decree 22 of 11/04/2014 of the Campania Region.

2014 - 2016

Regione Veneto (Veneto Region) - LR 5/2001 and LR 9/2007 projects

Member of the Technical-Scientific Commission, for the evaluation of the eligibility of project proposals to be admitted to the facilities provided by the Veneto Region LR 5/2001 and LR 9/2007.

Patents

International patent EP3204164B1

Among the inventors of the patent for industrial invention: "ELECTROSTATIC FILTER FOR PURIFYING A GAS FLOW", deposited under EP3204164B1.

International patent WO2022013774A1

Among the inventors of the patent for industrial invention: "MAGNETIC GEARSHIFT SYSTEM", deposited under WO2022013774A1.

International patent EP3888234A1

Among the inventors of the patent for industrial invention: "DIFFERENTIAL AND VEHICLE COMPRISING SUCH DIFFERENTIAL", deposited under EP3888234A1.

National patent PD2014A000306

Among the inventors of the patent for industrial invention: "TELEFERICA PER ESBOSCO A VALLE E METODO PER IL SUO FUNZIONAMENTO", deposited under PD2014A000306.

National patent PD102020000010027

Among the inventors of the patent for industrial invention: "DISPOSITIVO PER LA GENERAZIONE DI PLASMI A PRESSIONE ATMOSFERICA", deposited under PD102020000010027 .

Berlin, 28/04/2023