

## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Piero Boccardo**

Address(es)

Telephone(s)

E-mail

Nationality **Italian**

Date of birth

Gender **male**

### Work experience

Dates **From June 2012**

Occupation or position held **President of the Board of Directors**

Main activities and responsibilities **Public company management and strategy**

Name and address of employer

**5T**  
Public company owned by Municipality of Torino, Piedmont Regional Authority, Torino Metro City and GTT (Public Mobility Company).

Type of business or sector **Intelligent Transportation Systems (ITS), mobility mapping and infomobility**

Dates **2001 -**

Occupation or position held **Associate Professor in the field of geomatics**

Main activities and responsibilities **Lecturing activities, supervising master degree theses, (co-)authoring national and international publications**

Name and address of employer **Politecnico di Torino – Corso Duca degli Abruzzi 24 – I-10129 Torino**

Type of business or sector **Land, Environment and Geoengineering Dept.**

Dates **2006 -**

Occupation or position held **Director**

Main activities and responsibilities

Name and address of employer **ITHACA (Information Technology for Humanitarian Assistance, Cooperation and Action) – Via P.C. Boggio 61 – I-10138 Torino**

Type of business or sector **Geomatics, Mapping and Remote Sensing for emergency management (non-profit association)**

Dates **1995 - 2001**

Occupation or position held **Researcher**

Main activities and responsibilities **Research activities, in charge of several University courses in the field of Geomatics**

Name and address of employer	Politecnico di Torino – Corso Duca degli Abruzzi 24 – I-10129 Torino
Type of business or sector	Land, Environment and Geoengineering Dept.

## Education and training

Dates	1992 - 1995
Title of qualification awarded	Ph.D in "Geodetic and Topographic Sciences"
Principal subjects/occupational skills covered	Remote sensing and digital photogrammetry. Dissertation thesis titled: "Digital images acquisition and processing systems suitable for photogrammetric applications"
Name and type of organisation providing education and training	Politecnico di Torino - Land, Environment and Geoengineering Dept.
Dates	1984 - 1990
Title of qualification awarded	Degree <i>cum laude</i> in Architecture
Principal subjects/occupational skills covered	Degree course in Architecture
Name and type of organisation providing education and training	Politecnico di Torino

## Personal skills and competences

Mother tongue(s)	<b>Italian</b>
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Social skills and competences	Very good ability to work in team and very good communication skills gained through my experience as lecturer and professor. Good ability to adapt to multicultural environments, gained through my work and study experience abroad
Organisational skills and competences	Leadership (currently responsible for a team of 25 people)

Technical skills and competences	<p>Acquired competencies concerns primarily geomatics (Remote Sensing, Digital Mapping, GIS and Digital Photogrammetry). In particular, the different research are related to:</p> <ul style="list-style-type: none"> <li>• Geomatics and Information Technology for the analysis, assessment and mitigation of natural and manmade hazards</li> <li>• Remote sensing applications for the assessment of environmental conditions</li> <li>• Digital mapping and SDI implementation</li> <li>• Digital photogrammetry applied to remotely sensed data processing for the evaluation of geometric high resolution geometric and radiometric characteristics</li> <li>• Development of small UAV (Unmanned Aerial Vehicle) for emergency preparedness</li> </ul>
Funded projects	<p>In the framework of GMES initiatives, he is the scientific coordinator for the contract ENTR/2009/27, Implementation of an initial GMES Service for Geospatial Reference Data Access – Lot 2 – Implementation of an initial GMES service for geospatial reference data access covering areas outside Europe</p> <p>SUMP – Sustainable Urban Mobility Planning in Myanmar: project, financed by EuropeAid, will be implemented in 2015-16 by the already consolidated partnership of the SWM2 project, namely the City of Torino (consortium leader), ITHACA, the Italian NGO CESVI and the YCDC (Yangon City Development Committee), technically assisted by the Torino public company 5T.</p> <p>Environmental Protection and Sustainable Development: Building Local Capacities on SWM In Myanmar: ITHACA is partner in a EuropeAid cofunded project led by the City of Torino, together with the City of Yangon and CESVI Onlus..</p> <p>ELF - European Location Framework: launched in March 2013, ELF is co-funded by the European Commission's Competitive and Innovation Framework Programme (CIP).</p> <p>iCOAST (Integrated Coastal Alert System): European Commission financed project under the instrument "Prevention Projects in Civil Protection", lauched in December 2013 with a duration of 2 years.</p> <p>Malawi Disaster and Natural Resources Spatial Data Sharing Platform: in the framework of the partnership between the World Bank and the Government of Malawi for flood risk reduction in the Shire River Basin.</p> <p>Web GIS Application containing a Survey on Cultural Heritage sites in Cyprus funded by UNDP.</p> <p>Copernicus Emergency Management Service – Rapid Mapping: under a contract awarded by the European Commission for the operational provision of the Copernicus Emergency Management Service, ITHACA, in partnership with e-GEOS (leader), GAF, SIRS, SERTIT and DLR, has been awarded the Copernicus Emergency Management Service operations for the period 2012 – 2019.</p>
Academic record	<p>In charge for many university courses in the field of geomatics (remote sensing, digital maps, GIS design and applications); tutor of more than 50 dissertation thesis and around 20 Ph.D. dissertation ones</p>
Computer skills and competences	<p>Very good command of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™); Image processing and GIS softwares</p>
Additional information	<p>I am/have been member of many committees and professional associations – please see annex 1 I am author of more than 140 scientific publications (references supplied on request)</p>

## List of committees and professional associations memberships

### Institutional Responsibilities

- Member of the Academic Senate - Politecnico di Torino from 1994 to 1996
- Member of the Ph.D Commission of the Academic Senate - Politecnico di Torino from 1994 to 1996
- Member of the Scientific Research Commission of the Academic Senate - Politecnico di Torino from 1994 to 1996
- Member of the DIGET Department Board from 1998 to 2000

### Grant reviewer

- Referee for the national project of Siena University from 2000 to 2004
- Referee for the national project of Padua University since 2000
- Remote sensing referee for the Polo Nazionale di Bioelettronica

### Commissions of trust

- President of AIT (Associazione Italiana di Telerilevamento) since 2010
- President of the Working Group 1 (Disaster) of Commission VIII (Remote Sensing Application) of ISPRS (International Society of Photogrammetry and Remote Sensing) from 2008 to 2012
- Member of ITHACA (Information Technology for Humanitarian Assistance, Cooperation and Action) Board of Directors
- Member of ITHACA (Information Technology for Humanitarian Assistance, Cooperation and Action) Steering Committee

### Conferences Organization

- Chairman of more than 50 oral and poster sessions in different National and International Congresses

### Membership of Associations

- Member of the Remote Sensing Italian Association (AIT) since 1992
- Member of the ASITA Scientific Committee since 1997

## Publications

Bibliometric data extracted from Scopus:

Documents: 34

Citations: 59 total citations

*h*-index: 5

Bibliometric data extracted by ISI Web of Science:

Documents: 27

Citations: 47 total citations

*h*-index: 5

Bibliometric data extracted by Google Scholar:

Documents: 45

Citations: 171 total citations

*h*-index: 7

1. **2015** BOCCARDO, P., CHIABRANDO, F., DUTTO, F., TONOLO, F.G., LINGUA, A., UAV deployment exercise for mapping purposes: Evaluation of emergency response applications, *Sensors (Switzerland)*, 15 (7), pp. 15717-15737
2. **2015** AJMAR, A., BOCCARDO, P., DISABATO, F., GIULIO TONOLO, F., Rapid Mapping: geomatics role and research opportunities, *Rendiconti Lincei*, 26, pp. 63-73
3. **2015** GHOSH, J.K., BHATTACHARYA, D., BOCCARDO, P., SAMADHIYA, N., Automated Geo-Spatial Hazard Warning System GEOWARNS: Italian Case Study. *Journal of Computing in Civil Engineering*, 29 (5), 4014065
4. **2014** BOCCARDO, P., ARNEODO, F., BOTTA, D., Application of geomatic techniques in infomobility and intelligent transport systems (ITS), *European Journal of Remote Sensing*, 47 (1), pp. 95-115
5. **2014** AICARDI, I., BOCCARDO, P., CHIABRANDO, F., (...), MASCHIO, P., SPANÒ, A., Document A didactic project for landscape heritage apping in post-disaster management, *Applied Geomatics*, 7 (1), pp. 49-60
6. **2013** AJMAR, A., BALBO, S., BOCCARDO, P., (...), PIRAS, M., PRINCIC, J., Document A Low-Cost Mobile Mapping System (LCMMS) for field ata acquisition: a potential use to validate aerial/satellite building damage assessment, *International Journal of Digital Earth*, 6 (SUPPL.2), pp. 103-123
7. **2013** BHATTACHARYA, D., GHOSH, J.K., BOCCARDO, P., KOMARKOVA, J., Automated geo-spatial system for generalized assessment of socio-economic vulnerability due to landslide in a region, *European Journal of Remote Sensing*, 46 (1), pp. 379-399
8. **2013** BALBO, S., BOCCARDO, P., DALMASSO, S., PASQUALI, P., A public platform for geospatial data sharing for disaster risk management, *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, 40 (5W3), pp. 189-195
9. **2013** BOCCARDO P., Document New perspectives in emergency mapping, *European Journal of Remote Sensing*, 46 (1), pp. 571-582
10. **2012** GHOSH, J.K., BHATTACHARYA, D., SAMADHIYA, N.K., BOCCARDO, P., A generalized geo-hazard warning system, *Natural Hazards*, 64 (2), pp. 1273-1289
11. **2012** BOCCARDO, P., PASQUALI, P., Web mapping services in a crowdsourcing environment for disaster management: State-of-the-art and further development, *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, 39, pp. 543-548
12. **2012** BOCCARDO, P., TONOLO, F.G., Haiti earthquake damage assessment: Review of the remote sensing role, *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, 39, pp. 529-532
13. **2011** AJMAR A, BOCCARDO P, GIULIO TONOLO F, Earthquake damage assessment based on remote sensing data. The Haiti case study, *RIVISTA ITALIANA DI TELERILEVAMENTO, AIT*, pp. 6, 2011, Vol. 43/2, pagine da 123 a 128, ISSN: 1129-8596, DOI: [10.5721/ITJRS20114329](https://doi.org/10.5721/ITJRS20114329)
14. **2008** BENDEA H; BOCCARDO P.; DEQUAL S; GIULIO TONOLO F; MARENCHINO D; PIRAS. M, Low cost UAV for post-disaster assessment, *INTERNATIONAL ARCHIVES OF THE PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCES*, 2008, Vol. XXXVII, part B8, ISSN: 1682-1750

15. **2008** AGOSTO E.; AJMAR A.; BOCCARDO P.; GIULIO TONOLO F.; LINGUA A., Crime Scene Reconstruction Using a Fully Geomatic Approach., SENSORS, 2008, Vol. 8, ISSN: 1424-8220, DOI: 10.3390/S8106280
16. **2008** A. AJMAR; P. BOCCARDO; DISABATO F.; F. GIULIO TONOLO; F. PEREZ; G. SARTORI, EARLY IMPACT PROCEDURES FOR FLOOD
17. **2006** BOCCARDO P.; LANZO R; LEONI A; STOLA L. P, Digital cartography method and system, computer program product therefor, 2006
18. **2004** PIERO BOCCARDO; ENRICO BORGOGNO MONDINO; GIULIO TONOLO F., Orthorectification of high resolution satellite images, INTERNATIONAL ARCHIVES OF THE PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCES, 2004, Vol. XXXV parte B1, ISSN: 1682-1750
19. **2004** BOCCARDO P.; BORGOGNO MONDINO E; GOMARASCA M; PEROTTI L, Orthoprojection Tests of Hyperspectral Data in Steep Slope Zones, INTERNATIONAL ARCHIVES OF THE PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCES, 2004, Vol. VOL 35; PART 7, ISSN: 1682-1750
20. **2002** BOCCARDO P.; GIULIO TONOLO F; SPANO' A, GIS DESIGN USING HIGH GEOMETRIC RESOLUTION SATELLITE IMAGES AND HYPERSPECTRAL AIRBORNE DATA, INTERNATIONAL ARCHIVES OF THE PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCES, 2002, Vol. VOL 34; PART 5, ISSN: 1682-1750