

Pinto	Livio	Politecnico di Milano DICA - Head of the Geodetic and Geomatics section Associate professor	12/04/1963
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### Education and training

1987: Degree (M. Sc.) in Civil Engineering (Politecnico di Milano), dissertation about Photogrammetry.  
 1993: Ph.D. in Geodesy and Surveying, dissertation about Global Positioning System in Photogrammetry.  
 1995: Researcher with Politecnico di Milano.  
 2004: Associate Professor with Politecnico di Milano (Professor of Topographic Survey and Photogrammetry).  
 2012 - 2016: professor of Photogrammetry and Image Analysis of the Doctoral Program in "Geodesy and Geomatics" (included in the Doctoral Program of "Environmental and Infrastructure Engineering") of Politecnico di Milano.  
 2004 to date: professor of "Topography and data analysis" at the Politecnico di Milano.  
 2017 - eligibility as full Professor in Geomatics

### Research and professional experience

He is member of the Italian Society of Photogrammetry and Topography and from 2004 to 2014 he takes part of the executive committee. He is Editor of the scientific committee of the journal Applied Geomatics. As researcher he studied the deformations analysis by cameras in digital photogrammetry, the automation of the photogrammetric processing phases: interior orientation, DEM generation, automatic aerial triangulation, automatic ground control points measurement. He performed many researches also on positioning systems and in particular on the datum transformation of the GPS network by gravimetric geoid; the camera projection center determination by GPS and the INS system; the geodetic GPS networks for land service and for structural and territorial monitoring. As photogrammetric and positioning applications, he followed the realization of a Mobile Mapping System and of an Unmanned Aerial System (UAS).

### 10 Scientific Publications (last 4 years)

More than 160 papers at the international and national level.

Scopus h-index: 9

1. Carrion D., Minini G., Pinto L. (2017). Model of the O/D Matrix: Grid Driven Estimate of the O/D Matrices for a Car Sharing Service. In *Electric Vehicle Sharing Services for Smarter Cities* (pp. 253-264). Springer, Cham.
2. Fagandini R., Federici B., Ferrando I., Gagliolo S., Pagliari D., Passoni D., Pinto L., Sguerso D. (2017). Evaluation of the Laser Response of Leica Nova MultiStation MS60 for 3D Modelling and Structural Monitoring. In *International Conference on Computational Science and Its Applications* (pp. 93-104). Springer, Cham.
3. Pagliari, D., Rossi, L., Passoni, D., Pinto, L., De Michele, C., Avanzi, F. (2017). Measuring the volume of flushed sediments in a reservoir using multi-temporal images acquired with UAS. *Geomatics, Natural Hazards and Risk*, 8, pp. 150-166
4. Barzaghi, R., Cazzaniga, N.E., Pagliari, D., Pinto, L. (2016) Vision-Based Georeferencing of GPR in Urban Areas. *Sensors* 2016, 16, 132.
5. De Michele, C., Avanzi, F., Passoni, D., Barzaghi, R., Pinto, L., Dosso, P., Ghezzi, A., Gianatti, R., Della Vedova, G. (2016) Using a fixed-wing UAS to map snow depth distribution: an evaluation at peak accumulation. *The Cryosphere*, 10, pp. 511-522.
6. Barzaghi, R., Bettil, B., Biagi, L., Pinto, L., Visconti, M. (2016). "Estimating the Baseline between CERN Target and LNGS Reference Points." *J. Surv. Eng.* 10.1061/(ASCE)SU.
7. Pagliari, D., Passoni, D., Pinto, L. (2015). Monitoraggio di colate detritiche mediante il sensore Microsoft Kinect. *Bollettino della SIFET*. N. 1-2015.
8. Pagliari, D., Pinto, L. (2015). Calibration of Kinect for Xbox One and Comparison between the Two Generations of Microsoft Sensors. *Sensors* 2015, 15, 27569-27589.
9. Sona, G., Pinto, L., Pagliari, D., Passoni, D., Gini, R. (2014). Experimental analysis of different software packages for orientation and digital surface modelling from UAV images. *Earth Science Informatics* n. 1/2014.

10. Gini, R., Passoni, D., Pinto, L., Sona, G. (2014). *Use of Unmanned Aerial Systems for multispectral survey and tree classification: a test in a park area of northern Italy*. *European Journal of Remote Sensing*, vol. 47/2014, pp. 251-269.

### **Grants (last 5 years)**

*Regione Lombardia: "FOGLIE: a new geographic database is built on a pilot area in Lombardy and it's characterized by georeferenced routes, high resolution videos and images by Unmanned Aerial Vehicles (UAVs) and by stereoscopic technologies". Duration: 2 years, amount: 75,000 Euro.*

*Milano province administration: "Quality control and validation during the restitution of the aerophotogrammetric flight aimed at Topographic database production at 1:1000 1:2000 and 1:5000 scales for 88 municipalities in Milano province". Duration: 3 years; amount: 53,000 Euro.*

*Piacenza province administration: "Updating and publication of data through the management of urban planning data; cadastre of the roads". Duration: 2 years; amount: 80,000 Euro.*