

FRANCESCO MARINELLO

SHORT CV



PERSONAL DETAILS:

Name:	Marinello, Francesco		
Date and place of Birth:	July 21 th , 1978, Piove di Sacco (PD), Italy		
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SHORT DESCRIPTION:

Francesco Marinello got MS degree (110/110) in Mechanical Engineering, from University of Padova (Italy) in 2003.

In 2003 had a 6 months scholarship at the Department of Electronic Engineering (University of Padova).

From 2004 to 2007 had doctorate in Manufacturing Engineering in joint supervision with the Univ. of Padova and the Techn. Univ. of Denmark (DTU). The final thesis was awarded with the first prize at the Regional Prize for Innovation 2007.

In 2007 has been Visiting Assistant Professor at IPL (DTU), in connection with the EU-project "Universal and Flexible 3D Coordinate Metrology and Nano Components Production".

From 2007 to 2010 had a four years research fellowship at the Department of Manufacturing Engineering and Management (Univ. of Padova) for a project of project on metrology and development of standards for thin films characterization), in collaboration with Veneto Interuniversity Centre for Nanotechnology (CIVEN).

In 2010-11 have been working at the University of Applied Sciences and Arts of Southern Switzerland (SUPSI) with teaching activities in mechanical engineering and metrology courses.

In 2011-2012 has been working in a private company (Metersit srl) as metrology responsible.

Since 2012 is researcher at the University of Padova, in the field of agricultural mechanics, and adjunct professor with three courses on **Agricultural Mechanics, Precision Farming** and Applied Statistics.

He is promoter (as a member of the scientific committee) of:

- Second cycle degree - master of science (dual degree University of Padova, Italy and University of Georgia, USA) in Sustainable Agriculture;
- a post graduate Master's degree in GIScience and unmanned aerial vehicles for integrated management of land and natural resources.

The scientific background has grown up at a national and international level, with active involvement in projects, in collaboration with other university and industrial research centres.

Research activities can be divided into three main scientific lines:

- **development, implementation and testing of new sensors** allowing advanced data collection (including ground, drone and satellite sensing for monitoring of soil, plants or machines) and enhancement of agricultural practices;
- **study, modeling and testing of agricultural machines;**
- **study, modeling and testing of agricultural practices** (conservative ag., precision ag., controlled traffic farming).

Research activities are carried out in collaboration with national as well as international companies operating in the field of agriculture, as for instance Maschio e Gaspardo, Sfoggia, Forigo, Fendt/Agco Group, John Deere, Topcon, Foton Lovol International Heavy Industry, etc.

Francesco Marinello is author and co-author of 4 patents and more than 100 papers (64 indexed by Scopus) published in journals or presented at national and international conferences (H-index 12).

Last papers include:

- Pezzuolo A., Basso B., Marinello F., Sartori L., Using SALUS model for medium and long term simulations of energy efficiency in different tillage systems, Applied Mathematical Sciences, Vol. 8/129-132, pp. 6433-6445, 2014.
- Sofia G., Marinello F., Tarolli P., A new landscape metric for the identification of terraced sites: The Slope Local Length of Auto-Correlation (SLLAC), ISPRS Journal of Photogrammetry and Remote Sensing, Vol. 96, pp. 123-133, 2014.
- Marinello F., Pezzuolo A., Gasparini F., Arvidsson J., Sartori L., Application of the Kinect sensor for dynamic soil surface characterization, Precision Agriculture, Vol. 5, pp. 1-12, 2015.
- Marinello F., Pezzuolo A., Cillis D., Gasparini F., Sartori L., Application of Kinect-Sensor for three-dimensional body measurements of cows, Precision Livestock Farming '15, Wageningen Academic Publishers, pp. 661-663, 2013. ISBN 978-88-90975-32-5
- Boscaro D., Pezzuolo A., Grigolato S., Cavalli R., Marinello F., Sartori L., Preliminary analysis on mowing and harvesting grass along riverbanks for the supply of anaerobic digestion plants in north-eastern Italy, Journal of Agricultural Engineering, Vol. 46/465, pp. 100-104.
- Marinello F., Pezzuolo A., Simonetti A., Grigolato S., Boscaro D., Mologni O., Gasparini F., Cavalli R., Sartori L., Tractor cabin ergonomics analyses by means of Kinect motion capture technology, Contemporary Engineering Sciences, Vol. 8/28, pp. 1339-1349, 2015.
- Basso B., Dumont B., Cammarano D., Pezzuolo A., Marinello F., Sartori L., Environmental and economic benefits of variable rate nitrogen fertilization in a nitrate vulnerable zone, Science of The Total Environment, Vol. 545-546, pp. 227-35, 2016.

Research activity has been awarded with several prizes as the CLAAS Foundation Innovation Prize in 2015, the Alan Glanvill Award in 2013 and the Regional Prize for Innovation in 2007.

Funded Research in the last years includes:

- The Swedish Farmers' Foundation for Agricultural Research Project, "A measuring platform to determine soil and plant properties, especially in relation to seedbed properties" (Project n° H1160236, 2012-2014)
- University project, "Development of a novel sensor for in-field detection and quantification of grapes" (2015-2017)
- European Project - Intelligent Energy Europe Program, "GRass as a GRreen Gas Resource: Energy from landscapes by promoting the use of grass residues as a renewable energy resource" (Project n° IEE/12/046, 2013-2016)
- European Project - LIFE Program, "AGRICARE Innovative Green Farming" (Project n° LIFE13 ENV/IT/000583, 2014-2017).