



Europass Curriculum Vitae

Personal information

First name / Surname **Fabrizio Santi**

Work experience

Dates	February 2014 -ON
Occupation or position held	Research Fellow
Main activities and responsibilities	Study on techniques for active and passive multi-dimensional radar imaging
Name and address of employer	DIET Dept. University of Rome 'La Sapienza'
Dates	January 2014
Occupation or position held	Early stage researcher
Main activities and responsibilities	Processing of passive GNSS-based SAR images
Name and address of employer	DIET Dept. University of Rome 'La Sapienza'
Dates	March 2013
Occupation or position held	Early stage researcher
Main activities and responsibilities	Processing of multi-channel ISAR data
Name and address of employer	DIET Dept. University of Rome 'La Sapienza'
Dates	November 2010 → October 2012
Occupation or position held	Early stage researcher
Main activities and responsibilities	Study on Distributed ISAR techniques (research project funded by Selex Galileo)
Name and address of employer	DIET Dept. University of Rome 'La Sapienza'

Education and training

Dates	November 2010 → June 2014
Title of qualification awarded	Ph.D degree in Remote Sensing
Principal subjects/occupational skills covered	Active and passive Multi-sensor radar imaging techniques exploiting spatial diversity
Name and type of organisation providing education and training	Università degli studi di Roma, 'La Sapienza'
Dates	April 2013 → September 2013
Title of qualification awarded	Visiting research student
Principal subjects/occupational skills covered	Passive bi/multi-static SAR based on GNSS transmitters
Name and type of organisation providing education and training	University of Birmingham (UK), School of Electronic Electrical and Computer Engineering

Dates January 2008 → September 2010
 Title of qualification awarded Telecommunications engineering, Master Degree
 Principal subjects/occupational skills covered Radar theory and technology, Radar images processing, Space radar systems, Digital transmission, Multimedia Communications
 Name and type of organisation providing education and training Università degli studi di Roma, 'La Sapienza'
 Final Grade 110 cum laude /110

Dates September 2004 → December 2007
 Title of qualification awarded Telecommunications engineering, Bachelor Degree
 Name and type of organisation providing education and training Università degli studi di Roma, 'La Sapienza'
 Final Grade 108/110

Mother tongue **Italian**

Other language **English**

Self-assessment <i>European level (*)</i>	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
	B2 intermediate	B2 intermediate	B2 intermediate	B2 intermediate	B2 intermediate

(*) *Common European Framework of Reference for Languages*

Social and organisational skills and competences
 -Extremely organised person
 -Good abilities for synthetic and global views over concrete situations
 -End-oriented work capacity
 -Problem-solving attitude
 -Team-working attitude

Technical and computer skills and competences
 -Windows o.s.
 -Microsoft Office tools
 -good knowledge of MATLAB
 -basic knowledge of C++ and Java programming
 -basic knowledge of SAR dataset processing software (PolSARpro, Next ESA SAR Toolbox)

Driving licence Category B

Additional information Prize for the best 2010 Italian thesis on remote sensing by the IEEE Geoscience and Remote Sensing South Italy Chapter (title: "Rivelazione oil spill con radar VTS in banda X", supervisor: Prof. Pierfrancesco Lombardo)

Attendance to the 3rd International Summer School on Radar/SAR, Bonn, Germany, 8-15 July 2011.

Fabrizio Santi is frequently reviewer for the following international technical journals:

- IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
- IEEE Transaction on Aerospace and Electronic Systems
- IET Radar, Sonar and Navigation
- Acta Astronautica

Annex Publications

PUBLICATIONS

International Journals

- J2. F. Santi, M. Antoniou, D. Pastina, "Point Spread Function Analysis for GNSS-based Multistatic SAR", IEEE Geoscience and Remote Sensing Letters, vol. 12, no. 2, Feb. 2015, pp. 304-308
- J1. D. Pastina, F. Santi, M. Bucciarelli, "MIMO Distributed imaging of rotating targets for improve 2D resolution", IEEE Geoscience and Remote Sensing Letters, vol. 12, no.1, Jan. 2015, pp. 190-194.

Conference proceedings

- C11. F. Santi, M. Bucciarelli, D. Pastina, M. Antoniou, "CLEAN technique for passive bistatic and multistatic SAR with GNSS transmitters", 2015 IEEE International Radar Conference, Arlington, VA, USA, 11-15 May 2015.
- C10. F. Santi, M. Bucciarelli, D. Pastina, "Multi-sensor ISAR technique for feature-based motion estimation of ship targets", RADAR'14, International Radar Conference 2014, Lille, France, 13-17 Oct. 2014
- C9. F. Santi, M. Antoniou, D. Pastina, D. Tzagkas, M. Bucciarelli, M. Cherniakov, "Passive multi-static SAR with GNSS transmitters: preliminary experimental study", EuRAD 2014, Rome, Italy, 8-10 Oct. 2014
- C8. F. Santi, M. Antoniou, D. Pastina, D. Tzagkas, M. Bucciarelli, M. Cherniakov, "Passive multi-static SAR with GNSS transmitters: first theoretical and experimental results with point targets", EUSAR 2014, Berlin, Germany, 2-5 June 2014
- C7. F. Santi, D. Pastina, P. Lombardo, "ISAR while-scan mode for coastal surveillance", IEEE 2014 Radar Conference, May 2014.
- C6. F. Santi, D. Pastina, M. Bucciarelli, "Multi-sensor ISAR techniques for motion estimation of pitching, rolling and yawing targets", IEEE 2013 Radar Conference, May 2013.
- C5. F. Santi, M. Bucciarelli, D. Pastina, "2D-MIMO distributed ISAR imaging of rotating targets with improved range and cross-range resolution", IEEE 2012 GOLD Remote Sensing Conference, June 2012
- C4. F. Santi, M. Bucciarelli, D. Pastina, "Target rotation motion estimation from distributed ISAR data", IEEE 2012 Radar Conference, May 2012
- C3. D. Pastina, F. Santi, M. Bucciarelli, P. Lombardo, "2D-MIMO SAR/ISAR imaging of moving targets with reconfigurable formation of platforms", EUSAR 2012, April 2012
- C2. D. Pastina, F. Santi, M. Bucciarelli, "Multi-angle distributed ISAR with stepped-frequency waveforms for surveillance and recognition", CIE International Conference on Radar, October 2011
- C1. F. Santi, P. Lombardo, D. Pastina, "Oil spill detection using a coastal high-resolution radar", IEEE 2011 Radar Conference, May 2011