



Cosimo Rubino
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Address

Via De Amicis 11
75100 Matera (MT)
Italia

Cosimo Rubino

**Mechatronic Engineer
Computer Vision Researcher**

Education

09/2013 - 26/04/2017, Istituto Italiano di Tecnologia - VGM

PhD in Computer Vision

Thesis Title: Scene Understanding with Multi-view Geometry and Semantics

Research field: 3D Scene Reconstruction - Motion Segmentation

Advisor: PhD Alessio Del Bue

10/2015 - 04/2016, University of Adelaide

Visiting PhD student

Research field: Motion Segmentation

Advisor: Prof. Tat-Jun Chin

2009 - 2012, Università di Trento

Master Degree in Mechatronic Engineering

Principal subjects: Mechanical - Electrical Engineering

Thesis Title: Surface reconstruction of Lutetia asteroid by using Structure from Motion methods and photometry

08/2010 - 12/2010, Tampere University of Technology

Erasmus exchange

Courses attended: Robotics and teleoperation, Microsensors, System Engineering in Factory Automation

2005 - 2009, Università di Trento

Bachelor Degree in Industrial Engineering

Principal subjects: Material - Mechanical Engineering

Thesis Title: Implementation and comparison among vehicles driving models

Professional Experience

01/05/2016 - now, Fellow Senior Researcher, Istituto Italiano di Tecnologia - VGM

Research activity: Computer Vision, 3D object localisation and reconstruction

Implementation of the research on semantic 3D reconstruction

09/2012 - 12/2012, Mechanical Engineering, Mr. Paolo Montefinese

Type of business: Engineering services

Main Activities: Designing and service for renewable energy power plants and development of technical documentation



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04/2012 – 08/2012, *Mechanical Engineering, Rubino Prefabbricati*

Main activities: Design of mechanical components and molds, optimization of the production schedule, maintenance and updating of the company website.

07/2011, *Internship, Istituto Italiano di Tecnologia*

Research Activity: 3D reconstruction from images

Main activities: Reconstruction and analysis of an asteroid surface from NAC images

Skills

Programming

- Matlab (expert) C (basic)
- Ruby (basic) C++ (basic)

Internet

- HTML (intermediate) HTML5 (basic)
- CSS (basic)

Tools

- Linux Sketchup Illustrator
- AutoCAD ANSYS DS DraftSight
- MS Office LibreOffice LaTeX
- Maple Multisim Gimp
- PhotoShop

Computer Vision Tools

- CV Matlab toolbox Caffe (Matlab interface)

Scientific interests

Computer Vision

- Multiple View Geometry Structure from Motion
- Motion Segmentation Scene Reconstruction
- Object Detection Machine Learning

Conferences, Presentations and Courses

Conferences attended

- IEEE Conference on Computer Vision and Pattern Recognition - CVPR 2016 - Las Vegas, Nevada.
- IEEE International Conference on Image Analysis and Processing - ICIAP 2015 - Genova, Italia.
- IEEE Winter Conference on Applications of Computer Vision - WACV 2015 - Kona, Hawaii.



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Presentations

- 2016, *Poster*, IEEE Conference on Computer Vision and Pattern Recognition, Las Vegas, Nevada. Presented the work "Structure From Motion with Objects"
- 2015, *Oral Presentation*, IEEE Winter Conference on Applications of Computer Vision, Kona, Hawaii. Presented the work "Semantic Multi-Body Motion Segmentation"

Courses attended

- Vision and Sports Summer School 2014, August 18-23 - Prague, Czech Republic
- An Introduction to Machine Learning and Computer Vision, IIT Internal Course
- Machine Learning, Andrew Ng - Stanford University, (started on Oct 14th 2013, Coursera)
- Image and video processing course, Guillermo Sapiro - Duke University, (started on Jan 14th 2013, Coursera)

Publications and submissions

- Rubino, C.; Crocco, M.; Murino, V. ; Del Bue, A.; Semantic Multi-body Motion Segmentation, Winter Conference on Applications of Computer Vision (**WACV**), Hawaii, 2015 IEEE.
<http://www.computer.org/csdl/proceedings/wacv/2015/6683/00/6683b145.pdf>
- Crocco, M. ; Rubino, C.; Del Bue, A.; Structure from Motion with Objects, Computer Vision and Pattern Recognition (**CVPR**), 2016 IEEE Conference on. IEEE, Las Vegas, 2016.
http://www.cv-foundation.org/openaccess/content_cvpr_2016/papers/Crocco_Structure_From_Motion_CVPR_2016_paper.pdf
- Rubino, C., Crocco, M., Del Bue, A., 3D Object Localisation from Multi-view Image Detections, IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), 2017.
<http://ieeexplore.ieee.org/abstract/document/7919240/>
- Rubino, C., Fusiello, A., Del Bue, A., Lifting 2D object detections to 3D: A geometric approach in multiple views. Image Analysis and Processing (**ICIAP**), 2017.
- Gay P., Rubino, C., Crocco, M., Del Bue, A., Factorization based Structure from Motion with Object Priors. IEEE Computer Vision and Image Understanding (**CVIU**), 2017.
- Gay P., Bansal, V., Rubino, C., Del Bue, A., Probabilistic Structure from Motion with Objects (PSfMO). IEEE International Conference on Computer Vision (**ICCV**), Venezia, 2017.



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Languages

Italian

Native

English

Intermediate, conversationally fluent

French

Basic, simple words and phrases