

CURRICULUM VITAE

MARCO GRASSI

PERSONAL DETAILS

NAME: Marco Grassi
PLACE AND DATE OF BIRTH:
RESIDENCE:
PHONE:
E-MAIL:

EDUCATION

FEB. 2011 **Ph.D. Degree in Information Engineering** at Università Politecnica delle Marche
Tesis: "Application of Semantic Web Techniques to Affective Information Management"
(Extended Summary: http://www.ing.univpm.it/SDSI/IX%C2%B0_cycle/Marco_Grassi.pdf)
Visiting Student at Computing Science & Mathematics Department at Stirling University, Scotland
APR.2010 – MAY 2010 **Master's Degree in Electronic Engineering** at Università Politecnica delle Marche
MAR.2007 *Tesis: "Riconoscimento Efficiente di Volti Mediante Segmentazione di Immagini e Tecniche Neurali"*
SEP. 2005 – DEC. 2006 **Erasmus Project and Thesis** at "Escola Universitaria Politècnica de Mataró", attached to UPC of Barcelona (Spain).

WORKING EXPERIENCE

OCTOBER. 2013- TODAY **Freelance Full Stack Developer & Consultant**
Project Management, Architecture desing, Backend, Web and Mobile development

SELECTED PROJECTS

ClinGo Project

System for clinical analysis from home
Architecture design, Lavarel backend development, Angular Web App

Homie Project

System, for Smart energy monitoring base on Neural Network for NILM (Non Intrusive Load Monitoring) on Azure Cloud (www.dowsee.it)
Architecture design, Java Spring backend development, Azure Cloud Integration, Angular Web App development, React Native Mobile App development

Perfetto App

Mobile App for timesheet management for Antos S.r.l. (www.antos.it)
App design e development in Xamarin

HELL Project

Web based licensing system for Antos S.r.l. (www.antos.it)
Architecture and data model design. Front-end development in AngularJS

Relief Project

European Project for Pain Management for DowSee S.r.l. (www.dowsee.it)
System design and server development JAVA Spring

BLS Project

Software internationalization system for Antos S.r.l. (www.antos.it)
Architecture and data model design. Windows Desktop development in C#

(Complete Portofolio available on request)

ICT Manager at Marche Technological Cluster's (e-Living, Marche Manufacturing and Agrifood)

Design and implementation organization's websites (www.e-living.net, www.marche-manufacturing.it, www.agrifoodmarche.it, www.cluster-marche.it, www.i-labs.it,)
System administration and data security.
Management of IT resources

APRIL. 2011- AUG 2018

Post-Doc Researcher at SeMedia (Semantic Web and Multimedia) Group

Università Politecnica delle Marche, Ancona, Italy. (<http://www.semedia.dii.univpm.it>)

SHELL Project: Semantic Web Tools for Digital Libraries (<http://thepund.it>)

A 24 month R&D project supported by EU FP7 commenced in January 2011 for the development a Web-Based Semantic Annotation System to exploit user-generated RDF metadata and publish it as Linked Data.

- General and functional system requirement analysis.
- Annotation Data Model definition, reusing and extending existing ontologies (FOAF, Dublin Core, Open Annotation Collaboration, PAV, etc.).
- Annotation Client Software Development (HTML, Javascript, Dojo, AJAX).

Nov. 2007- MAR. 2011

PhD Student at 3MediaLabs Università Politecnica delle Marche, Ancona, Italy. (<http://www.semedia.dii.univpm.it>)

COST Action 2102: "Cross-Modal Analysis of Verbal and Non-Verbal Communication"
(<http://cost2102.cs.stir.ac.uk>)

A European research action that aims to study the multimodality of human communication from different scientific disciplines ranging from AI and Computer Science.

- Working Group Coordinator for Metadata Encoding Task (encoding metadata generated in processing video and audio dialogues and associated gestures and affective information)
- Development of an OWL ontology for Human Emotions
- Development of a prototype for Semantic YouTube Video Annotation supporting Semantic Tagging, Named Entities Extraction and semantic assertions generation.
(<http://www.semedia.dii.univpm.it/semtube>)

SAIYL Project (Ambient Intelligent System for Luxury Yachts)

A Marche Region founded project to introduce Ambient Intelligence in the Luxury Yacht Scenario.

- Study of the application of Semantic Web technologies for supporting intelligent task management and efficient energy consumption in Smart Home environments.
- Design of a two OWL ontologies for energy and devices.
- Development of a prototype multitouch table application for Entertainment purposes, picture visualization, music and video playback, RSS feeds and Internet browsing (C#, WPF, .NET 4.0, SQL Server).

JUL. 2007 – DEC. 2008

ItWorks Srl – System Engineering, Ancona (www.it-works.it/)

"e-Door" Project

A Marche Region founded project to study and develop a smart access control system.

(<http://a3lab.dibet.univpm.it/projects/edoor>)

- Analysis of system and software requirements.
- Software development for system control GUI (C#, VB.NET, WPF and SQL Server).
- Organization and participation to regular meetings with other project partners for coordinating the development activity.

RESEARCH ACTIVITY

FIELDS OF INTEREST:

- Semantic Web, Linked Open Data, Web 2.0, Knowledge Management
- Big Data, Data Mining and Visualization
- Affective Computing, Opinion Mining and Sentiment Analysis
- Ambient Intelligence and Smart Homes
- Neural Networks and Machine Learning

SELECTED PUBLICATIONS:

COMPLETE LIST AVAILABLE ON REQUEST

- Marco Grassi, Christian Morbidoni, Michele Nucci, Simone Fonda and Francesco Piazza. Pundit: Augmenting Web Contents with Semantics. Literary & Linguistic Computing, 2013.
- Marco Grassi, Michele Nucci and Francesco Piazza. Ontologies for Smart Homes and Energy Management: an Implementation-driven Survey. In Proceedings of the IEEE Workshop on Modeling and Simulation of Cyber-Physical Energy Systems 2013, May 20, 2013, Berkeley, CA. 2013.
- M. Grassi, C. Morbidoni, M. Nucci A Collaborative Video Annotation System Based on Semantic Web Technologies, In Cognitive Computation, Springer, 2012.
- M. Grassi, C. Morbidoni, M. Nucci, S. Fonda, G. Ledda Pundit: Semantically Structured Annotations for Web Contents and Digital Libraries, In Semantic Digital Archives, 2012.
- M. Grassi, E. Cambria, A. Hussain and F. Piazza. Sentic Web: a New Paradigm for Managing Social Media Affective Information. Cognitive Computation. Springer-Verlag, Berlin Heidelberg (DOI 10.1007/s12559-011-9101-8). 2012.
- E. Cambria, M. Grassi, A. Hussain and C. Havasi. Sentic Computing for Social Media Marketing. In press: Multimedia Tools and Applications. Springer-Verlag, Berlin Heidelberg (DOI 10.1007/s11042-011-0815-0). 2011.
- C. Morbidoni, M. Grassi, M. Nucci, "Introducing SemLib Project: Semantic Web Tools for Digital Libraries". International Workshop on "Semantic Digital Archives - sustainable long-term curation perspectives of Cultural Heritage" held as part of the 15th International Conference on Theory and Practice of Digital Libraries (TPDL). 29.09.2011 in Berlin.
- Marco Grassi, Michele Nucci, Francesco Piazza, "Towards an ontology framework for intelligent smart home management and energy saving", Proceedings of the 20th IEEE International Symposium on Industrial Electronics. Gdansk, Poland, 27-30 June, 2011.
- M.Grassi "Developing HEO: Human Emotion Ontology", Biometric Id Management and Multimodal Communication Lecture Notes in Computer Science, 2009, Volume 5707/2009, 244-251, DOI: 10.1007/978-3-642-04391-8_32. 2009.

SELECTED CONFERENCES (LECTURER):

COMPLETE LIST AVAILABLE ON REQUEST

- MSCPES 2013 - IEEE Workshop on Modelling and Simulation of Cyber-Physical Energy Systems 2013. May 20 2013, Berkeley CA.
- SDA2013 "3rd International Workshop on "Semantic Digital Archives" part of 17th International Conference on Theory and Practice of Digital Libraries (TPDL). 26.09.2013, Valletta, Malta.
- SDA2012 "2nd International Workshop on "Semantic Digital Archives" part of 16th International Conference on Theory and Practice of Digital Libraries (TPDL). 27.09.2012, Paphos, Cyprus.
- Digital Humanities 2012 –University of Hamburg, 16 - 22 July 2012.
- SDA2011 "International Workshop on "Semantic Digital Archives" part of the 15th International Conference on Theory and Practice of Digital Libraries (TPDL). 29.09.2011, Berlin.
- ISIE 2011 - 20TH IEEE International Symposium on Industrial Electronics, Gdansk, Poland, 27-30 June, 2011
- ICNSC 2011 - 8th IEEE International Conference Networking, Sensing & Control Delft, The Netherlands, 11-13 April, 2011

DIDACTIC ACTIVITY

- Support to the Circuit Theory courses at Università Politecnica delle Marche from Academic Year 2007/2008 to present.
- Support to the Technologies for Distributed Information courses at Università Politecnica delle Marche from Academic Year 2009/2010 to 2010/2011. Supervision of 1 M.Sc. thesis.

LANGUAGES

ITALIAN	Mother tongue
ENGLISH	Proficient -Cambridge English Proficiency (CPE) Certificate
SPANISH	Fluent (Curso de Lingua Española - Avanzato I)
DEUTCH	Basic

TECHNICAL SKILLS

TECHNOLOGIES AND PROGRAMMING

Good Knowledge with working experience:

- HTML/XHTML/XML, CSS 3, Javascript, Angular, React JS, JQuery, Dojo.
- Java/J2EE, Spring, Tomcat, MySQL.
- PHP, Laravel, Wordpress Development.
- React Native, Xamarin, .NET Maui
- C#, .NET, WPF, SQL Server
- MongoDB, Redis, MQTT
- Docker, Kubernetes
- RDF, RDFs, OWL, SPARQL, Sesame, Protegè, Top Braid Composer.
- Python, CherryPy
- Apache Hadoop, Rapidminer, Apache Spark, Microsoft Power BI
- Cloud Services: Microsoft Azure, AWS (Amazon Web Services)

Academic knowledge:

C/C++, Matlab, Turbo Pascal.

OPERATING SYSTEMS Mac OSX, Linux, Windows

IDEs AND CODE MANAGEMENT TOOLS IntelliJ IDEA, Visual Studio Code, PHP Storm, Microsoft Visual Studio, Eclipse, Git, SVN

DEVELOPMENT METHODOLOGY AND PROJECT TOOLS

- Knowledge and application of Agile/SCRUM Development.
- Jira for project management and issue tracking

OTHER SOFTWARES

- Microsoft Office, Figma, Visio, Omnigraffle
- Photoshop, Illustrator, Adobe XD, LightRoom, Autocad

OTHER INTERESTS Travelling, Trekking, Photography, DIY, Music, Movies.

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