

Europass Curriculum Vitae

Personal information

Surname(s) / First name(s)

Simone Scardapane



Education and training

<p>Dates (From - to)</p> <p>University</p> <p>Topics</p>	<p>October 2014 - January 2015</p> <p>La Trobe University (Melbourne)</p> <p>Honorary Visiting PhD Student</p> <p>Development of novel distributed supervised learning algorithms for big data applications.</p>
<p>Dates (From - to)</p> <p>University</p> <p>Topics</p> <p>Academic Activities</p>	<p>October 2012 - January 2016 (Expected)</p> <p>University of Rome "La Sapienza"</p> <p>PhD in Information and Communication Technology</p> <p>Scalability of supervised learning algorithms, distributed machine learning, big data classification, intelligent audio processing.</p> <p>Teaching assistant for the courses of "Neural Networks" and "Adaptive Filtering and Parallel Computing" (taught by Prof. Aurelio Uncini).</p>
<p>Dates (From - to)</p> <p>University</p> <p>Thesis</p> <p>Topics</p> <p>Qualification awarded</p>	<p>September 2009 - September 2011</p> <p>University of Rome "La Sapienza",</p> <p>Master Degree in Artificial Intelligence and Robotics</p> <p>Chaotic Series Prediction using Kernel Adaptive Filtering Techniques (supervisor Prof. Aurelio Uncini).</p> <p>Machine learning and computational intelligence; control, planning and stabilization of robotics platforms; semantic reasoning; computer vision and perception.</p> <p>Master of Science degree in Artificial Intelligence and Robotics, <i>magna cum laude</i></p>
<p>Dates (From - to)</p> <p>University</p> <p>Activites</p> <p>Project</p>	<p>July 2010 - July 2010</p> <p>Tohoku University (Sendai, Japan),</p> <p>Engineering Summer Program 2010 - Robotics</p> <p>Two weeks of lectures on Rescue Robotics, Humanoid Robotics, Space Robotics, Robotics Locomotion and other robotic topics. All lectures given by full professors of Tohoku Engineering Department.</p> <p>Design and construction of an omnidirectional wheeled robot using Lego Mindstorm and NXC.</p>
<p>Dates (From - to)</p> <p>University</p> <p>Thesis</p> <p>Subject</p> <p>Qualification awarded</p>	<p>September 2006 - September 2009</p> <p>University of Rome "Roma Tre",</p> <p>Bachelor in Computer Engineering</p> <p>Operators for the translation of schemas and instances in a model management framework (supervisor Prof. Paolo Atzeni).</p> <p>Design and implementation of OOP software, functional programming, principles of telecommunications and signal processing, linear control, operating systems, computer networks.</p> <p>Bachelor of Science in Computer Engineering, <i>magna cum laude</i></p>

Awards

Award	Excellent Graduate, Year 2011-2012
Organization	Fondazione La Sapienza
Motivation	A prize for students who have distinguished themselves for academic or other merits.

Work experience

Dates	December 2013 - January 2014
Company	University of Rome "La Sapienza"
Position held	Occasional Collaborator
Main activities and responsibilities	Development of software modules for the classification of audio data in an outdoor, unstructured scenario. The work took place in the context of the "Smartoptigrid" project between La Sapienza and Intecs S.p.A., funded by the Italian Ministry of Defence.

Dates	November 2011 - October 2012
Company	5 Emme Informatica SpA
Position held	Software Developer
Main activities and responsibilities	I was involved in various aspects (analysis, development and testing) of four main projects, including (i) a tablet application for tracking RFID-enabled medical sponges for reducing risks and costs of accidental retention inside the body of a patient; (ii) a SLA management system for a medium-size (40 thousand active users) mail system delivered by Fastweb.

Personal Skills and Competences

Mother tongue(s)

Other languages

Self-assessment

European level^(*)

English

French

Italian

English, French

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C2	C1
C2	C2	C1	C2	C1

^(*) Common European Framework of Reference (CEF) level

Technical Skills

Research Skills

Fluent in machine learning methodologies and signal processing techniques, including kernel methods, recurrent networks, regularization theory and game theoretical approaches to computational intelligence.

IT Skills

Excellent working knowledge of Java SE/EE, C, C++/C++11, PHP4/PHP5, Matlab, ASP.NET, HTML5, CSS3 and jQuery.

Good experience in software development, including agile techniques.

Capacity of handling databases (MySQL, SQLite, Postgres, Microsoft SQL Server 2005 & 2008) and small computer networks.

Driving License

Italian Driving License of Type B (Cars up to 3.5 T and 8 passengers).

Selected Publications

Journals

[J1] Scardapane, S., Wang, D., Panella, M. and Uncini, A. (2015). Distributed Learning for Random Vector Functional-Link Networks. Information Sciences, 301, 271-284.

Book Chapters

[J2] Scardapane, S., Comminiello, D., Scarpiniti, M. and Uncini, A. (2015). Online Sequential Extreme Learning Machine With Kernels. *IEEE Transactions on Neural Networks and Learning Systems* (to appear).

[B1] Scardapane, S., Comminiello, D., Scarpiniti, M., Parisi, R., and Uncini, A. (2013). PM10 Forecasting Using Kernel Adaptive Filtering: An Italian Case Study. *Neural Nets and Surroundings*, 19, 93-100.

Conference Proceedings

[C1] Scardapane, S., Nocco, G., Comminiello, D., Scarpiniti, M., and Uncini, A. (2014, July). An effective criterion for pruning reservoir's connections in Echo State Networks. In *2014 International Joint Conference on Neural Networks (IJCNN)*, (pp. 1205-1212). IEEE.

[C2] Scardapane, S., Comminiello, D., Scarpiniti, M., and Uncini, A. (2014, July). GP-based kernel evolution for L 2-Regularization Networks. In *2014 IEEE Congress on Evolutionary Computation (CEC)*, (pp. 1674-1681). IEEE.

[C3] Bianchi, F. M., Scardapane, S., Livi, L., Uncini, A., and Rizzi, A. (2014, July). An interpretable graph-based image classifier. In *2014 International Joint Conference on Neural Networks (IJCNN)*, (pp. 2339-2346). IEEE.

[C4] Scardapane, S., Comminiello, D., Scarpiniti, M., and Uncini, A. (2013, September). Music classification using extreme learning machines. In *IEEE 2013 8th International Symposium on Image and Signal Processing and Analysis (ISPA)*, pp. 377-381.

[C5] Comminiello, D., Scardapane, S., Scarpiniti, M., and Uncini, A. (2013, July). Interactive quality enhancement in acoustic echo cancellation. In *IEEE 2013 36th International Conference on Telecommunications and Signal Processing (TSP)*, pp. 488-492.