

Salvatore Frandina

PERSONAL INFORMATION	14th March 1985, Siena salvatore.frandina@gmail.com
CONTACT INFORMATION	Department of Information Engineering and Mathematical Science - Università degli Studi di Siena San Niccolò, via Roma, 56 53100 Siena - Italy +39 0577 234850 http://frandinas.altervista.org salvatore.frandina@protonmail.com
RESEARCH INTERESTS	Competence areas: machine learning, artificial intelligence, computational statistics Research areas: semi-supervised and unsupervised learning, deep learning, logic reasoning, data analysis, constraints satisfaction problem
EDUCATION	Università degli Studi di Siena , Siena - Italy Ph.D., Information Engineering, February 2015 Thesis Topic: <i>Video Scene Semantic Labeling using Deep Learning and Learning from Constraints</i> Advisor: Marco Maggini, Associate Professor M.S. (<i>cum laude</i>), Telecommunications Engineering, Apr 2010 Thesis Topic: <i>Videoconference for Asterisk iPBX: Study and Implementation</i> Advisor: Alessandro Andreadis, Assistant Professor B.S. (<i>cum laude</i>), Telecommunications Engineering, Dec 2007 Thesis Topic: <i>Implementation on FPGA of a Control System for Increasing the Entropy of Random Bits Generator</i> Advisors: Valerio Vignoli, Associate Professor and Tommaso Addabbo, Associate Researcher Istituto Tecnico Industriale , Siena - Italy High school certificate of education ("Industrial expert technician specialized in Electronics and Telecommunications"), with mark 100/100 Jul 2004
RESEARCH EXPERIENCE	Ph.D. Oct 2010 - July 2014 Department of Information Engineering and Mathematical Science, Università degli Studi di Siena, Siena - Italy Supervisor: Marco Maggini, Associate Professor and Marco Gori, Full Professor
REFEREED PUBLICATIONS	<ol style="list-style-type: none">1. S. Frandina C. Saccà, M. Diligenti and M. Gori "Constraint-based Learning for Text Categorization." <i>CoCoMile Workshop (ECAI)</i>, 2012.2. S. Frandina, M. Lippi, M. Maggini, S. Melacci "On-Line Laplacian One-Class Support Vector Machines." <i>ICANN</i>, 186-193, 2013.3. S. Frandina, M. Gori, M. Lippi, M. Maggini, S. Melacci "Variational foundations of online backpropagation." <i>ICANN</i>, 82-89, 2013.4. S. Frandina, M. Gori, M. Lippi, M. Maggini, S. Melacci "Inference, Learning, and Laws of Nature." <i>NeSy'13 Workshop (IJCAI)</i>, 2013.

AWARDS- SCHOLARSHIP	<p>Student Awards – “Renato Mariani” AEIT Outstanding engineering student of University of Siena Apr 2011</p> <p>Ph.D. Scholarship Three years Ph.D. Scholarship at Department of Information Engineering and Mathematical Science, Università degli Studi di Siena, Siena - Italy Research area: “Adaptive Systems for Information Processing” Oct 2010 - Oct 2013</p>
PRESENTATIONS	<p>Department of Information Engineering and Mathematical Science, Università degli Studi di Siena, Siena - Italy</p> <p>On-line learning models and on-line SVMs Seminar Series Jul 2012 DVA project Seminar Series Nov 2014</p>
ATTENDED CONFERENCES - SUMMER/WINTER SCHOOL	<p>International Conferences</p> <p>Associazione Italiana per l’Intelligenza Artificiale (AI*IA) Roma - Italy Jun 2012</p> <p>European Conference on Computer Vision (ECCV) Firenze - Italy Oct 2012</p> <p>International Joint Conference on Artificial Intelligence (IJCAI) Beijing - China Aug 2013</p> <p>Winter School PRACE Winter School Cineca Bologna - Italy Feb 2012</p>
TEACHING EXPERIENCE	<p>Teacher Sep 2013 - Jun 2015</p> <p>Secondary School Istituto Superiore Valdichiana, Chiusi - Italy Topics: Electrical and Electronics Engineering and Computer Science</p>
WORK EXPERIENCE	<p>Internship AMTEC - Elsag Datamat s.p.a, Abbadia San Salvatore - Italy Telecommunications Engineer: Study and Implementation of the Videoconference Service for the Asterisk iPBX Aug 2009 - Mar 2010</p> <p>Internship Department of Information Engineering and Mathematical Science, Università degli Studi di Siena, Siena - Italy Undergraduate Student at Electrical and Electronics Laboratory: Implementation on FPGA of a Control System for Increasing the Entropy of Random Bits Generator Jul 2007 - Nov 2007</p>
LANGUAGE SKILLS	<p>Italian Level: mother tongue</p> <p>English Level: C1 level of CEFR (advanced level) Certificate C1 USiena Open, University of Siena Dec 2014 Level: B1 level of CEFR (intermediate level) Certificate PET ESOL Examinations, University of Cambridge Jul 2007</p>
SOFTWARE AND HARDWARE SKILLS	<p>Software Skills</p> <p>Operating Systems: Windows XP, Vista, 7 (advanced user) - GNU/Linux Ubuntu/Debian (advanced user) Programming and scripting languages: C/C++ (average user) - Java (basic user), UNIX shell scripting (basic user) Computing and development environments: MATLAB (average user) - Eclipse (average user) - GCC (average user) - SVN (basic user)</p>

Network protocols: HTTP, SIP, RTP, RTSP, TCP, UDP, IP, Ethernet, Wi-Fi (average user)

Projects and Libraries: Asterisk (average user) - STL (average user) - Boost C++ library (basic user) - pthread and OpenMP (basic user) - OpenCV (basic user)

Markup languages: HTML (basic user) - LaTeX (average user)

Applications: LibreOffice and Microsoft Office (advanced user) - VLC (average user) - GIMP (average user) - Inkscape (basic user)

Hardware skill

Electronic Design, Measurement: VHDL FPGA (basic user) - Quartus II (basic user) - OrCAD (basic user), LabVIEW (basic user)

Other: High experience and knowledge of PC components, peripherals and networking

OTHER

Software Development

Developer of an extension of AppConference - An High-Performance Asterisk Voice/Video Conferencing Plugin

Developer of Semantic Based Regularization Software (SBRS) - An Intelligent Agent Simulator to Connect Logic and Kernel Machine

Developer of Developmental Visual Agent (DVA) - A General Purpose Computer Vision System

REFERENCES

Michelangelo Diligenti

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