

# CURRICULUM VITAE ET STUDIORUM OF RUGGERO DONIDA LABATI

ruggero.donida@unimi.it  
<http://homes.di.unimi.it/donida>

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## Table of contents

<b>1</b>	<b>Personal Data and Working Experiences</b>	<b>2</b>
<b>2</b>	<b>Research and Experimental Activities</b>	<b>3</b>
2.1	Description of the performed research activity in academic context . . . . .	3
2.2	Participation to national and international research projects . . . . .	3
2.3	Description of the performed research and development activities in industrial context	4
<b>3</b>	<b>Teaching</b>	<b>5</b>
<b>4</b>	<b>Organization and Service Activities</b>	<b>6</b>
4.1	Editorial activity . . . . .	6
4.2	Conference activities . . . . .	6
4.3	Participation to international conferences . . . . .	8
<b>5</b>	<b>Publications</b>	<b>9</b>
5.1	Refereed Papers in International Journals . . . . .	9
5.2	Chapters in Books . . . . .	9
5.3	Refereed Papers in Proceedings of International Conference and Workshop . . . . .	9
5.4	Thesis . . . . .	11

# 1 Personal Data and Working Experiences

Ruggero Donida Labati was born in Lodi, Italy, on August 25, 1983.

He has received the Bachelor's degree in *Computer Science* in October 2006 from Università degli Studi di Milano, discussing the thesis “Distributed software applications for the email notification of events related to complex approval procedures”, with vote 91/110.

During the academic year 2006/2007, he has taught Computer science, Operating systems, and Electronics to the fourth and fifth years students of the high school Istituto Italo Svevo of Crema.

He has received the Master's degree in *Computer Science* in December 2008 from Università degli Studi di Milano, discussing the thesis “Adaptive algorithms for the segmentation of iris images”, with vote 99/110.

In October 2008, in the context of the Master's degree thesis, he has achieved the publication of the obtained results in an international journal [1] and has reached the seventh place at the international competition NICE.I (*Noisy Iris Challenge Evaluation*), in which there have been involved more than 97 participants from universities and companies of 30 countries. The competition has been organized by the Soft Computing and Image Analysis Group (SOCIA Lab), Department of Computer Science, University of Beira Interior, Portugal (<http://nice1.di.ubi.pt>).

From June 2008 to November 2008, he has cooperated with the company Harding-IT S.R.L., Crema, working in the design and implementation of micrometric laser measurement systems.

From February 2009 to December 2010, he has perceived a research grant from Università degli Studi di Milano, Department of Information Technologies, performing research activities regarding biometric systems and computational intelligence techniques.

From January 2010 to March 2013, he has been a PhD student at the Computer Science Doctorate School of Università degli Studi di Milano (XXV group), performing research activities at the Department of Computer Science, with the supervision of Prof. Piuri and Prof. Scotti. In this period:

- he has attended the “International Summer School for Advanced Studies on Biometric Authentication: Forensics, Security and Remote Identification”, Alghero, Italy, June 7 – 11, 2010;
- he has attended the “International Computer Vision Summer School”, Ragusa, Italy, July 11 – 16, 2011;
- he has attended the “First IntelliCIS Training School”, Albena, Bulgaria, October 10 – 13, 2011.

He has obtained the PhD in March 2013, discussing the thesis “Contactless Fingerprint Biometrics: Acquisition, Processing, and Privacy Protection”.

From February 2013, he is a research assistant at Università degli Studi di Milano, Department of Information Technologies. The research has regard biometric systems, computational intelligence techniques, industrial applications, and environmental control systems.

## 2 Research and Experimental Activities

### 2.1 Description of the performed research activity in academic context

The university research activity has regarded the high level design, implementation, and application of algorithms and hardware systems for the acquisition of images and signals. In particular, the research activity has involved the following topics.

- Three-dimensional biometric systems: the research has been focused on contactless fingerprint recognition systems based on three-dimensional models designed for live and forensic applications.
- Less-constrained biometric systems: the performed study has been focused on biometric techniques for the contactless fingerprint recognition, iris images captured on the move in uncontrolled light conditions, and soft biometric methods in surveillance applications .
- Privacy protective biometric systems: in the context of the project PRIN 2007 “Priv–Aware: Elaborazione di segnali cifrati per la tutela della privacy nel trattamento di informazioni sensibili” he has cooperated in the design and implementation of a biometric recognition system based on the fingerprint trait and able to perform identity comparisons using only encrypted data.
- Environmental monitoring methods: in the context of the project “Sistemi Adattativi per il Monitoraggio Ambientale” supported by Università degli Studi di Milano, he has cooperated in the design of a wildfire monitoring system based on the analysis of frame sequences captured using low-cost cameras.
- Computational intelligence applications: the research has been mainly focused on the use of neural networks in classification and approximation applications.
- Three-dimensional reconstruction: hardware and software three-dimensional reconstruction methods based on multiple view techniques, structured light approaches, shape from shading algorithms, and profilometry have been studied.
- Adaptive signal and image processing techniques: computer vision and image processing techniques have been studied in depth, mainly considering contactless fingerprint images, iris images captured in natural light conditions and presenting reflections and occlusions, and microscope blood samples.

### 2.2 Participation to national and international research projects

He has participated to the research activities regarding the following national and international research projects:

- PRIN 2007 “Priv–Aware: Elaborazione di segnali cifrati per la tutela della privacy nel trattamento di informazioni sensibili”, 2008 – 2010, related to the study and implementation of privacy protective biometric systems;
- “Sistemi Adattativi per il Monitoraggio Ambientale”, 2009 – 2010, supported by Università degli Studi di Milano, related to adaptive techniques for the detection of wildfires;
- I–PAN “Innovative Poplar Low Density Structural Panel”, 2012 – 2015, supported by the European Union, and related to the study and implementation of techniques for the production of new poplar low density structural panels.

## 2.3 Description of the performed research and development activities in industrial context

During the working experience at the company Harding–IT (from June 2008 to November 2008), he has been involved in the study, design, experimentation, and implementation of advanced algorithms for the elaboration of signal acquired by different kinds of sensors in micrometric laser measurement machines, principally designed for mechanic and advanced manufacturing industries (<http://www.microplan-group.com/mpg/ENG/non-contact-measure-machines.html>). In this context, he has designed and implemented the following techniques.

- Algorithms for the automatic recognition of the geometrical characteristics of the measured pieces: morphologic techniques have been used to estimate the objects shapes, permitting the automatic calibration of the measurement system and the automatic choice of the proper measurements that have to be performed for every section of the pieces (e.g. heights, diameters, or angles).
- Adaptive measurement algorithms: considering a set of profiles of measured pieces, acquired in polar or Cartesian coordinates, adaptive techniques have been studied to compute automatic system calibrations based on the different portions of the piece, removing systematic errors and overcoming to possible inclinations of the piece due to bad placements caused by the human operator.
- Filtering algorithms for the data acquired by the laser sensor: different kinds of filters have been tested and implemented in order to remove the noise injected in the acquired profiles by the measurement system, considering polar and Cartesian coordinates, and evaluating different operative conditions.

Moreover, he has implemented a software for the evaluation of the measurement systems uncertainty, cooperating with Prof. G. Barbato of Politecnico di Torino. This work is based on the patent N.05818133.0–2213–182005003793 “Method of determining the uncertainty of a coordinate measuring machine”, G. Barbato, R. Levi e G. Vicario.

### 3 Teaching

He has taught the following seminars at Università degli Studi di Milano:

- “Development techniques in Matlab” for the course *Intelligent systems* of the master degree curriculum in computer science (academic years 2010 – 2011, 2011 – 2012, 2012 – 2013);
- “Realization of neural classifiers in Matlab” for the course *Intelligent systems* of the master degree curriculum in computer science (academic year 2011 – 2012, 2012 – 2013);
- “Realization of fuzzy systems in Matlab” for the course *Intelligent systems* of the master degree curriculum in computer science (academic years 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013).
- “Techniques for the implementation of biometric systems in Matlab” for the course *Biometric Systems* of the master degree curriculum in computer science (academic years 2008 – 2009, 2009 – 2010, 2011 – 2012);
- “Implementation of evolutionary algorithms in Matlab” for the course *Intelligent systems* of the master degree curriculum in computer science (academic years 2009 – 2010, 2010 – 2011, 2011 – 2012);

He has been correlator of 9 thesis regarding biometric systems.

## 4 Organization and Service Activities

Since 2010, he is an IEEE Student Member, and IEEE Computational Intelligence Society Member.

### 4.1 Editorial activity

He has been a reviewer for a great number of conferences and for the sequent international journals:

- *Elsevier Pattern Recognition Letters*, 2011 – 2013;
- *IEEE Systems Journal – Special Issue on Security and Privacy in Complex Systems*, 2012;
- *Elsevier Signal Processing*, 2011 – 2012;
- *IET Biometrics*, 2011 – 2012.

### 4.2 Conference activities

He holds / has held the sequent roles in the organization of international scientific conferences:

- publication chair for the *2013 IEEE Workshop on Biometric Measurements and Systems for Security and Medical Applications (IEEE BioMS 2013)*, Napoli, Italy, September 9, 2013;
- local arrangement chair for the *2013 IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications*, Milan, Italy, July 15–17, 2013
- publicity chair for the *2012 IEEE Workshop on Biometric Measurements and Systems for Security and Medical Applications (IEEE BioMS 2012)*, Salerno, Italy, September 14, 2012;
- publicity chair for the *2011 IEEE Workshop on Biometric Measurements and Systems for Security and Medical Applications (IEEE BioMS 2011)*, Milano, Italy, September 28, 2011;
- publicity chair for the *2010 IEEE Workshop on Biometric Measurements and Systems for Security and Medical Applications (IEEE BioMS 2010)*, Taranto, Italy, September 9, 2010.

He is / has been member of the program committee of the sequent international scientific conferences:

- *XXI World Congress IMEKO*, Prague, Czech Republic, August 30 – September 4, 2015;
- *11th International Multi-Conference on Systems, Signals and Devices (SSD 2014)*, Castelldefels – Barcelona, Spain , February 11 – 14, 2014;
- *10th IEEE International Conference on Autonomic and Trusted Computing (ATC 2013)*, Sorrento Peninsula, Italy , December 18 – 21, 2013;
- *2013 IEEE International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA 2013)*, Kuala Lumpur, Malaysia, 26 – 27 November 2013;
- *TSP 2013 – Fourth IEEE International Symposium on Trust, Security and Privacy for Emerging Applications (TSP-13)*, Zhangjiajie, China, 11 – 15 November 2013;
- *9th International Conference on Artificial Intelligence Applications and Innovations Conference (AIAI 2013)*, Paphos, Cyprus, September 30 – October 2, 2013;

- *14th Engineering Applications of Neural Networks (EANN 2013)*, Halkidiki, Greece, September 19 – 22, 2013;
- *2013 IEEE Workshop on Biometric Measurements and Systems for Security and Medical Applications (IEEE BioMS 2013)*, Napoli, Italy, September 9, 2013;
- *The Seventh International Conference on Emerging Security Information, Systems and Technologies (SECURWARE 2013)*, Barcelona, Spain, August 25 – 31, 2013;
- *The 2013 IEEE International Conference on Green Computing and Communications (Green-Com 2013)*, Barcelona, Spain, August 20 – 23, 2013;
- *12th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom–13)*, Melbourne, Australia, July 16 – 18, 2013;
- *2013 IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications (CIVEMSA 2013)*, Milan, Italy, July 15 – 17, 2013;
- *International Conference on Computer and Communication Technology (ICCT–2012)*, Allhabad, India, November 23 – 25, 2012;
- *13th Engineering Applications of Neural Networks / Artificial Intelligence Applications and Innovations (AIAI 2012)*, Halkidiki, Greece, September 27 – 30, 2012;
- *2012 IEEE Workshop on Biometric Measurements and Systems for Security and Medical Applications (IEEE BioMS 2012)*, Salerno, Italy, September 14, 2012;
- *The Sixth International Conference on Emerging Security Information, Systems and Technologies (SECURWARE 2012)*, Rome, Italy, August 19 – 24, 2012;
- *2012 IEEE International Conference on Computational Intelligence for Measurement Systems and Applications (CIMSAS 2012)*, Tianjin, China, July 2 – 4, 2012;
- *2012 IEEE International Conference on Virtual Environments, Human–Computer Interfaces and Measurement Systems (VECIMS 2012)*, Tianjin, China, July 2 – 4, 2012;
- *12th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom–12)*, Liverpool, UK, June 25 – 27, 2012;
- *International Conference on Autonomous and Intelligent Systems (AIS 2012)*, Aveiro, Portugal, June 25 – 27, 2012;
- *10th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom–11)*, Changsha, China, November 16 – 18, 2011;
- *Conference on Computer Convergence Technology (CCCCT–2011)*, Seoul, Chorea, October 20 – 22, 2011;
- *2011 IEEE International Conference on Computational Intelligence for Measurement Systems and Applications (CIMSAS 2011)*, Ottawa, Ontario, Canada, September 19 – 21, 2011;
- *12th Engineering Applications of Neural Networks / Artificial Intelligence Applications and Innovations (AIAI 2011)*, Corfu, Greece, September 15 – 18, 2011.

### 4.3 Participation to international conferences

He has presented eleven papers of which he is a coauthor in international scientific conferences.

He has participated to the sequent international conferences:

- *2013 IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications (CIVEMSA 2013)*, Milan, Italy, July 15 – 17, 2013;
- *2013 IEEE Symposium Series on Computational Intelligence (SSCI 2013)*, Singapore, April 16 – 19, 2010;
- *2012 IEEE International Conference on Computational Intelligence for Measurement Systems and Applications (CIMSAS 2012)*, Tianjin, China, July 2 – 4, 2012;
- *2012 IEEE International Conference on Virtual Environments, Human–Computer Interfaces and Measurement Systems (VECIMS 2012)*, Tianjin, China, July 2 – 4, 2012;
- *2011 IEEE Workshop on Biometric Measurements and Systems for Security and Medical Applications (IEEE BioMS 2011)*, Milan, Italy, September 28, 2011;
- *IntelliCIS Workshop 5*, Milan, Italy, September 27, 2011;
- *2011 IEEE International Conference on Computational Intelligence for Measurement Systems and Applications (CIMSAS 2011)*, Ottawa, Ontario, Canada, September 19 – 21, 2011;
- *2011 IEEE International Conference on Virtual Environments, Human–Computer Interfaces and Measurement Systems (VECIMS 2011)*, Ottawa, Ontario, Canada, September 19 – 21, 2011;
- *2011 International Conference on Image Processing (ICIP 2011)*, Brussels, Belgium, September 11 – 14, 2011;
- *International Conference on Network and System Security (NSS 2011)*, Milan, Italy, September 6 – 8, 2011;
- *2011 IEEE Symposium Series on Computational Intelligence (SSCI 2011)*, Paris, France, November 16, 2010;
- *2010 IEEE Workshop on Biometric Measurements and Systems for Security and Medical Applications (IEEE BioMS 2010)*, Taranto, Italy, September 9, 2010;
- *2010 IEEE International Conference on Computational Intelligence for Measurement Systems and Applications (CIMSAS 2010)*, Taranto, Italy, September 6 – 8, 2010;
- *2010 IEEE International Conference on Virtual Environments, Human–Computer Interfaces and Measurement Systems (VECIMS 2010)*, Taranto, Italy, September 6 – 8, 2010.



## 5 Publications

### 5.1 Refereed Papers in International Journals

- [1] V. P. F. S. R. Donida Labati A. Genovese, “Wildfire smoke detection using computational intelligence techniques enhanced with synthetic smoke plume generation,” *IEEE Transactions on Systems, Man and Cybernetics: Systems*, vol. 43, no. 4, pp. 1003 –1012, Jul. 2013.
- [2] R. Donida Labati and F. Scotti, “Noisy iris segmentation with boundary regularization and reflections removal,” *Image and Vision Computing, Iris Images Segmentation Special Issue*, vol. 28, no. 2, pp. 270 –277, Feb. 2010.

### 5.2 Chapters in Books

- [3] R. Donida Labati, A. Genovese, V. Piuri, and F. Scotti, *Iris segmentation: state of the art and innovative methods*, C. Liu and V. Mago, Eds., ser. Intelligent Systems Reference Library. Springer, 2012, vol. 37, pp. 151 –182.
- [4] F. S. R. Donida Labati V. Piuri, *Biometric Privacy Protection: Guidelines and Technologies*, F. J. M. S. Obaidat J.S. Sevillano, Ed. Springer, 2012, vol. 314, pp. 3 –19.
- [5] R. Donida Labati and F. Scotti, “Fingerprint,” in *Encyclopedia of Cryptography and Security (2nd ed.)* H. van Tilborg and S. Jajodia, Eds., Springer, 2011, pp. 460 –465.

### 5.3 Refereed Papers in Proceedings of International Conference and Workshop

- [6] A. Bonissi, R. Donida Labati, L. Perico, R. Sassi, F. Scotti, and L. Sparagino, “A preliminary study on continuous authentication methods for photoplethysmographic biometrics,” in *2013 IEEE Workshop on Biometric Measurements and Systems for Security and Medical Applications (BioMS 2013)*, Accepted, Napoli, Italy, Sep. 2013.
- [7] V. P. R. Donida Labati A. Genovese and F. Scotti, “Accurate 3d fingerprint virtual environment for biometric technology evaluations and experiment design,” in *2013 IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications (CIVEMSA 2013)*, Accepted, Milan, Italy, Jul. 2013.
- [8] V. P. R. Donida Labati A. Genovese and F. Scotti, “A virtual environment for the simulation of 3d wood strands in multiple view systems for the particle size measurements,” in *2013 IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications (CIVEMSA 2013)*, Accepted, Milan, Italy, Jul. 2013.
- [9] R. Donida Labati, A. Genovese, V. Piuri, and F. Scotti, “Contactless fingerprint recognition: a neural approach for perspective and rotation effects reduction,” in *IEEE Workshop on Computational Intelligence in Biometrics and Identity Management (CIBIM)*, Singapore, Singapore, Apr. 2013.
- [10] R. Donida Labati, A. Genovese, V. Piuri, and F. Scotti, “Two-view contactless fingerprint acquisition systems: a case study for clay artworks,” in *Proc. of the 2012 IEEE Workshop on Biometric Measurements and Systems for Security and Medical Applications (BioMS 2012)*, Salerno, Italy, Sep. 2012, pp. 1 –8.
- [11] R. Donida Labati, A. Genovese, V. Piuri, and F. Scotti, “Weight estimation from frame sequences using computational intelligence techniques,” in *Proc. of the 2012 IEEE International Conference on Computational Intelligence for Measurement Systems and Applications (CIMSAS 2012)*, Tianjin, China, Jul. 2012, pp. 29 –34.

- [12] R. Donida Labati, A. Genovese, V. Piuri, and F. Scotti, "Virtual environment for 3-d synthetic fingerprints," in *Proc. of the 2012 IEEE International Conference on Virtual Environments, Human-Computer Interfaces and Measurement Systems (VECIMS 2012)*, Tianjin, China, Jul. 2012, pp. 48–53.
- [13] R. Donida Labati, A. Genovese, V. Piuri, and F. Scotti, "Quality measurement of unwrapped three-dimensional fingerprints: a neural networks approach," in *Proc. of the 2012 IEEE-INNS International Joint Conference on Neural Networks (IJCNN 2012)*, Brisbane, Australia, Jun. 2012, pp. 1123–1130.
- [14] R. Donida Labati, A. Genovese, V. Piuri, and F. Scotti, "Low-cost volume estimation by two-view acquisitions: a computational intelligence approach," in *Proc. of the 2012 IEEE-INNS International Joint Conference on Neural Networks (IJCNN 2012)*, Brisbane, Australia, Jun. 2012, pp. 1092–1099.
- [15] R. Donida Labati, A. Genovese, V. Piuri, and F. Scotti, "Fast 3-d fingertip reconstruction using a single two-view structured light acquisition," in *Proc. of the 2011 IEEE Workshop on Biometric Measurements and Systems for Security and Medical Applications (BioMS 2011)*, Milan, Italy, Sep. 2011, pp. 1–8.
- [16] A. Genovese, R. Donida Labati, V. Piuri, and F. Scotti, "Wildfire smoke detection using computational intelligence techniques," in *Proc. of the IEEE 2011 International Conference on Computational Intelligence for Measurement Systems and Applications (CIMSAS 2011)*, Ottawa, ON, Canada, Sep. 2011, pp. 1–6.
- [17] R. Donida Labati, V. Piuri, and F. Scotti, "All-idb: the acute lymphoblastic leukemia image database for image processing," in *Proc. of the 2011 IEEE International Conference on Image Processing (ICIP 2011)*, Brussels, Belgium, Sep. 2011, pp. 2045–2048.
- [18] A. Genovese, R. Donida Labati, V. Piuri, and F. Scotti, "Virtual environment for synthetic smoke clouds generation," in *Proc. of the 2011 IEEE International Conference on Virtual Environments, Human-Computer Interfaces and Measurement Systems (VECIMS 2011)*, Ottawa, Canada, Sep. 2011, pp. 1–6.
- [19] R. Donida Labati, V. Piuri, and F. Scotti, "A neural-based minutiae pair identification method for touchless fingerprint images," in *Proc. of the 2011 IEEE Workshop on Computational Intelligence in Biometrics and Identity Management (CIBIM 2011)*, Paris, France, Apr. 2011, pp. 96–102.
- [20] R. Donida Labati, A. Genovese, V. Piuri, and F. Scotti, "Measurement of the principal singular point in contact and contactless fingerprint images by using computational intelligence techniques," in *2010 IEEE International Conference on Computational Intelligence for Measurement Systems and Applications (CIMSAS 2010)*, Sep. 2010, pp. 18–23.
- [21] M. Barni, T. Bianchi, D. Catalano, M. D. Raimondo, R. Donida Labati, P. Failla, D. Fiore, R. Lazzeretti, V. Piuri, F. Scotti, and A. Piva, "Privacy-preserving fingercode authentication," in *Proc. of the 2010 ACM Workshop on Multimedia and Security*, New York, NY, USA, Sep. 2010, pp. 231–240.
- [22] M. Barni, T. Bianchi, D. Catalano, M. D. Raimondo, R. Donida Labati, P. Failla, D. Fiore, R. Lazzeretti, V. Piuri, F. Scotti, and A. Piva, "A privacy-compliant fingerprint recognition system based on homomorphic encryption and fingercode templates," in *Proc. of the 2010 IEEE International Conference on Biometrics: Theory Applications and Systems (BTAS 2010)*, Washington, D.C., USA, Sep. 2010, pp. 1–7.

- [23] T. Bianchi, R. Donida Labati, V. Piuri, A. Piva, F. Scotti, and S. Turchi, “Implementing fingercode-based identity matching in the encrypted domain,” in *Proc. of the 2010 IEEE Workshop on Biometric Measurements and Systems for Security and Medical Applications (BIOMS 2010)*, Taranto, Italy, Sep. 2010, pp. 15 –21.
- [24] R. Donida Labati, V. Piuri, and F. Scotti, “Neural-based quality measurement of fingerprint images in contactless biometric systems,” in *Proc. of the 2010 IEEE-INNS International Joint Conference on Neural Networks (IJCNN 2010)*, Barcelona, Spain, Jul. 2010, pp. 1 –8.
- [25] R. Donida Labati, V. Piuri, and F. Scotti, “Neural-based iterative approach for iris detection in iris recognition systems,” *IEEE Symposium on Computational Intelligence for Security and Defence Applications*, pp. 1 –6, Dec. 2009.
- [26] R. Donida Labati, V. Piuri, and F. Scotti, “Agent-based image iris segmentation and multiple views boundary refining,” pp. 1 –7, Nov. 2009.
- [27] R. Donida Labati, V. Piuri, and F. Scotti, “A low-cost neural-based approach for wood types classification,” in *Proc. of the 2009 IEEE International Conference on Computational Intelligence for Measurement Systems and Applications (CIMSAS 2009)*, Taranto, Italy, Jun. 2009, pp. 199 –203.

#### 5.4 Thesis

- [28] R. Donida Labati. Library of the Department of Computer Science , Milan: Ph.D. Thesis, Università degli Studi di Milano, 2013.
- [29] R. Donida Labati. Library of the Department of Computer Science , Milan: M.S. Thesis, Università degli Studi di Milano, 2008.