

## **Gloria Menegaz**

### **PERSONAL INFORMATION**

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| Birth date and place | 3/3/1967, Verbania                                       |
| Address              | Via dei Mille 7/A, I-37126 Verona                        |
| Professional address | Dept. of Computer Science<br>University of Verona, Italy |

### **CURRENT POSITION**

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| Since 2007 | Associate Professor at the Dept. of Computer Science, Università degli Studi di Verona, Italy |
| Since 2014 | Director of the Doctoral School of Natural and Engineering Sciences                           |

### **QUALIFICATIONS**

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| 1/2015     | Qualification as Full Professor in Computer Science (Abilitazione Scientifica Nazionale, Prima fascia, SSD 01/B1, Informatica)   |
| 2008, 2012 | Qualification à Professeur des Universités, France, Section 27 – Computer Science. This corresponds to Professore Ordinario according to the conversion table “Comparaison des carrières des enseignants chercheurs des pays étrangers, arrêté du 10 février 2011” |

### **DEGREES**

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|---------------|---|
| 7/2000        | PhD (Docteur ès Sciences Techniques), Signal Processing Lab. (ITS), EPFL, Lausanne, Switzerland. Thesis Director: Prof. Murat Kunt. Thesis: Model-based coding of multi-dimensional data with applications to Medical Imaging |
| 9/1994-7/1995 | Master in Information Technology, CEFRIEL-Politecnico di Milano, Italy. MSc thesis title: A Prototype Waveform Interpolation low-bitrate speech codec.  |
| 7/1993        | MSc in Electronic Engineering, Politecnico di Milano, 100/100. MSc thesis: Design and characterization of single photon avalanche diodes for time-resolved photoluminescence  |

### **CAREER**

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|----------------|--|
| Since 10/2007  | Associate Professor (tenure 10/2010), Dept. of Computer Science, University of Verona, Italy.  |
| 3/2004-2/2007  | Adjunct Professor, Dept. of Information Engineering, University of Siena, Italy. Funding from the Italian Ministry for University and Research (MIUR) (DM 20/03/2003 n. 501, Rientro dei Cervelli - Brain Drain initiative). |
| 12/2002-2/2004 | Assistant Professor (Maître Assistante), Dept. of Computer Science, University of Fribourg, Switzerland  |

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|-----------------|---|
| 10/2000-10/2002 | First research assistant, Audiovisual Communications Lab. (LCAV), School of Computer and Communications Sciences (I&C), EPFL, Lausanne, Switzerland |
| 05/2000-09/2000 | post-doc, Biomedical Imaging Group (BIG), Department of Applied Optics (IOA), EPFL, Lausanne, Switzerland   |
| 9/1995-07/2000  | Research Assistant, Signal Processing Lab. (LTS). Department of Electrical Engineering (DE), EPFL, Lausanne, Switzerland                            |
| 9/1995-09/1996  | Research Assistant, CEFRIEL-Politecnico di Milano, Milan, Italy   |
| 07/1993-09/1995 | Stage, Physics Institute, Dept. of Electronics, Politecnico di Milano, Italy  |

### **INSTITUTIONAL RESPONSABILITIES**

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| Since 06/2016  | Member of the Quality Assurance Committee of the PhD courses for the Doctoral School of Natural and Engineering Sciences  |
| Since 10/2015  | President of the Scientific Committee of the Doctoral School of Natural and Engineering Sciences  |
| Since 7/2014   | Director of the Doctoral School of Natural and Engineering Sciences   |
| Since 7/2014   | President of the Council of the Doctoral School in Natural and Engineering Sciences   |
| 3-7/10/2015    | Member of the Evaluation Committee for the applications to the Board of Directors (Consiglio di Amministrazione) of the University of Verona, appointed by the Academic Senate                              |
| Since 10/2015  | Department representative and Department Director's delegate for the National Conference of the Presidents and Directors of the Science and Technology Academic Institutions (ConScienze)                   |
| 2012-2014      | Deputy Director of the Doctoral School of Science, Engineering and Medicine   |
| 6/2013-12/2014 | Referent for the quality evaluation committee (AVA) for the Course of Bioinformatics (LM31)   |
| Since 12/2013  | Member of the Committee for the Approval of Biomedical Research on Humans (C.A.R.U.) (appointed by the Academic Senate on Dec. 3, 2013)   |
| 2012-2014      | Member of the Collegio di Disciplina of the Academic Senate   |
| 2010-2012      | Representative of the Associate Professors at the Academic Senate   |
| 2010-2012      | Member of the research evaluation Committee of the Academic Senate  |
| 2009-2012      | Department representative at the Council of the Doctoral School in Science, Engineering and Medicine  |
| 2010-2011      | Member of the Committee for Research Guidance and Evaluation of the Italian Ministry of University and Research (Comitato di Indirizzo per la Valutazione della Ricerca, CIVR) for Computer Science (INF01) |
| Since 2007     | Member of the Doctoral committee in Computer Science (Collegio Docenti del Dottorato in Informatica)  |

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| Since 2007 | Member of the Departmental council (Consiglio di Dipartimento di Informatica)  |
| 2007-2012  | Member of the Faculty council (Consiglio di Facoltà di Scienze) for MM. FF. e NN. Sciences   |
| 2009       | Member of the commission for the design of the Master course in Bioinformatics and Medical Biotechnologies (laurea Magistrale in Bioinformatica e Biotechnologie Mediche, LM9)   |
| 2009, 2015 | Member of the admission committee for the PhD course in Computer Science (Corso di dottorato in Informatica, XXV ciclo, 2009, XXXI ciclo, 2015)  |
| 2010-2012  | Member of the commission for the students' related matters (Commissione pratiche studenti)   |
| Since 2007 | Member of the Teaching committee of the MSc courses in Engineering and Computer Science (LM32) (since 2007) and Bioinformatics and Medical Biotechnologies (LM9) (since 2010), and of the BSc courses in Bioinformatics and Computer Science |

### PHD THESIS DIRECTION AND MENTORING

She is currently leading a group consisting of 3 post-docs and 3 PhD students.

Total: 8 PhD students; 6 post-docs; 1 research Engineer; 24 MSc students: 12 at the University of Verona, 7 at the University of Siena (2005-2009), 5 at the Swiss Federal Institute of Technology (EPFL, LTS and LCAV, 2000-2003), 1 co-tutoring with the Universitat Autònoma de Barcelona, degree in Computer science (2011); 12 BSc students at the University of Verona, 7 PhD internal commissions of students with other tutors.

### POST-DOCS

|                       |   |
|-----------------------|---|
| 01/02/2016-31/01/2017 | Mauro Zucchelli, PhD in Computer Science. Topic: Brain microstructure modeling based on diffusion MRI.  |
| 1/4/2014-31/11/2016   | Silvia Storti, PhD in Neurological and Movement Sciences. Topic: modeling of functional connectivity networks based on EEG and fMRI data (Joint Project 2012)   |
| 1/1/2013-31/12/2015   | Andrès Mendez Guerrero. Topic: characterization of cancerous lesions from multi-modal data based on dissimilarity representations in manyfolds (Joint Project 2010)   |
| 1/5/2012-30/4/2013    | Massimo De Luca, PhD in Information Engineering, University of Padova. Topic: segmentation of MRI data using a multivariate Gaussian tissue model and rendering of cortical surfaces (Joint Project 2011)   |
| 1/1/2015-31/7/2016    | Ilaria Boscolo Galazzo, PhD in Neurological and Movement Sciences, co-mentoring with Dr. Francesca Pizzini, Neuroradiology Division, Verona University Hospital. Topic: modeling of functional connectivity networks in neurological pathologies based on Arterial Spin Labelling (ASL) data. Position co-funded by the Institute of Nuclear Medicine, University College London, United Kingdom and the Department of Neuroradiology, University Hospital Verona, Italy) |

1/1/2011-31/12/2012 | Francesca Pizzorni Ferrarese. Topic: validation of medical imaging pipelines, segmentation and modeling of the thalamus from diffusion MRI data, in collaboration with Prof. Brian Wandell, Stanford University (PRIN 2009 1/1/2012-31/12/2012 and Cooperint grant)

1/3/2012-30/9/2012 | Giulia Paggetti. Topic: Color naming and applications to imaging, social signaling

#### **PHD STUDENTS**

Since 10/2015 | Silvia Obertino. Topic: In-vivo brain microstructure and structural connectivity validation using TMS

4/2015-4/2016 | Jony Kirk, co-tutoring, Dept. of Design, Swinburn University, Australia. Topic: Color categorization: neurophysiological evidences (withdrawal in 2015)

Since 11/2014 | Lorenza Brusini. Topic: Modeling of brain tissues microstructure

Since 1/2014 | Sehresh Khan. Topic: Bridging functional and structural connectivity: a multi-modal approach

Since 1/2013 | Mauro Zucchelli. Topic: Towards brain tissue microstructure characterization using diffusion MRI

2010-2013 | Lin Ying Chia. Title: Towards the integration of diffusion neuroimaging, multiscale representations and cortical functionality

2010-2012 | Andres Mendez Guerrero, Biomarkers for cancer research: blending multiple modalities, dimensions and scales

2009-2011 | Giulia Paggetti, University grant for fostering international cooperation. Topic: Human perception: a link between cognitive and computer sciences.

2008-2010 | Francesca Pizzorni Ferrarese. Topic: Towards non-invasive techniques for head and brain tumors diagnosis and therapy planning: use and validation of diffusion imaging and tractography

#### **PHD THESIS CO-DIRECTION**

1996-2007 | Three co-directions of PhD thesis, one at the Audiovisual Communications Lab. of the EPFL (see funding section), two at the Dept. of Information Engineering of the University of Siena.

#### **RESEARCH ENGINEER SUPERVISION**

1/4/2012-31/3/2013  
1/7/2013-30/6/2014 | Flavio Simonetti, MSc. Topic: volume stitching on NewTom (3D computerized tomography) data (funding from CEFLA-QR Verona spa and POR II funding from Regione Veneto)

## PHD THESIS COMMISSION

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| Since 2007 | Participation to 7 commissions in cycles XXII (1 candidate), XXV (1 candidate), XXVIII (three candidates) and XXIX (2 candidates). |
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## MSC AND BSC MENTORING

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| Since 2000 | Direction of 24 Master students (12 at the University of Verona since 2009), 16 BSc diploma students and 27 stages at the University of Verona since 2009 (5 as Academic tutor), supervision of two Erasmus exchange students (2010 and 2016). |
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## EXTERNAL REFEREE FOR PHD THESIS

|      |  |
|------|--|
| 2016 | Nusrat Sharmin, PhD School of the University of Trento, PhD School of the University of Trento |
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| 2016 | Alessandro Ferrari, Computer Vision and Machine Learning for Supporting Diagnosis on Solid Agar Microbiological Cultures, PhD Course in Telecommunications Engineering, Dept. of Information Engineering, Università degli Studi di Brescia |
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| 2011 | Fabrizio Marini, Content Based No-Reference Image Quality Metrics, Università degli Studi di Milano Bicocca, Facoltà di Scienze Matematiche, Fisiche e Naturali Dipartimento di Informatica, Sistemistica e Comunicazione Dottorato di Ricerca in Informatica - XXIII Ciclo |
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| 2007 | R. Benavente Vidal, A Parametric Model for Computational Color Naming, Doctor en Informatica, Dept. Ciències de la Computació and Computer Vision Center, Universitat Autònoma de Barcelona, Barcellona, Spagna |
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## JURY MEMBER FOR FOREIGN INSTITUTIONS

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| 2016 | Jury member for the <i>Concours de Chargé de Recherche, INRIA-Sophia Antipolis-Méditerranée</i> (junior and advanced researchers CR1, CR2) |
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## MENTORING OF EXCHANGE STUDENTS

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| 2016 | Universitat Politècnica de València (Espanya), ERASMUS STUDENT PLACEMENT European Programme, for a placement of 7.5 months |
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| 2011 | Universitat Autònoma de Barcelona, MSc in Computer science (03/2011) |
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## TEACHING

### University of Verona

|           |   |
|-----------|---|
| 2017-     | Signal and Image processing, BSc in Computer Science (6 CFU)  |
| 2016-     | Image Processing II, MSc in Engineering and Computer Science (LM18-32) (6CFU)   |
| 2015-     | Human Computer Interaction, MSc In Engineering and Computer Science (LM18-32) (2CFU)  |
| 2014-2016 | Multiresolution Analysis; Theory and Applications, MSc in Engineering and Computer Science (LM18-32) and MSc in Bioinformatics and Medical Biotechnologies (LM9) (6CFU)           |
| 2010-2015 | Bioimaging and Processing of medical data, MSc in Bioinformatics and Medical Biotechnologies (LM9), (6 CFU). Coordinator of the whole course and teacher of the Bioimaging module |
| 2008-     | Image Processing, BSc in Computer Science (6CFU)  |
| 2008-     | Image Processing for bioinformatics BSc in Bioinformatics (6 CFU)   |
| 2009-2014 | Multimedia communications, (6 CFU), MSc in Engineering and Computer Science (LM18-32) (6CFU)  |
| 2008-2010 | Signals and Systems for Bioinformatics, BSc in Bioinformatics (6 CFU)   |
| 2008-2009 | Human-Computer interfaces, BSc in Computer Science  |
| 2007-2008 | Computer architectures, Lab. Session (2 CFU)  |

### Teaching in other institutions

|           |  |
|-----------|--|
| 2004-2007 | Multimedia communications, (6 CFU), MSc in Informatics and Telecommunication Engineering 42h Università degli Studi di Siena, Dept. of Information Engineering, Faculty of Telecommunications Engineering, |
| 2002-2004 | Advanced Image Processing, MSc in Computer Science, (6 CFU), 42h, University of Friburg (Switzerland), Faculty of Sciences, Dept. of Computer Science  |
| 2001-2002 | Teaching assistant for the BSc Color Imaging course, Dept. of Telecommunications, School of Telecommunication and Computer Science, Swiss Federal Institute of Technology (EPFL),                          |
| 2000-2001 | Teaching assistant for the BSc Digital Photography course, Dept. of Telecommunications School of Telecommunication and Computer Science, Swiss Federal Institute of Technology (EPFL),                     |

### Doctoral courses and Short courses

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| 5/2010 | Grant writing, Doctoral school in Sciences, Engineering and Medicine, University of Verona (2h)                                |
| 5/2009 | Perceptual image processing: bridging vision, Doctoral school in Sciences, Engineering and Medicine, University of Verona (8h) |

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| 12/2007 | Image quality assessment, Dept. of Computer Science, University of Milan (4h)   |
| 10/2006 | Vision de la couleur et applications pour le traitement d'images, UMR 6168, Master SIS Recherche, Université de la Méditerranée. Aix Marseille II, France. Teaching Staff mobility program (8h) |
| 11/2005 | Catégorisation et appellation des couleurs, UMR 6168, Master SIS Recherche, Université de la Méditerranée Aix Marseille II, France (4h)   |
| 7/2004  | Traitement d'images basé sur la perception visuelle (Ecole doctorale), PhD course in Telecommunication Engineering, University of Siena (16h)   |

## FUNDING

### National Projects

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| 2004-2007 | RIENTRO DEI CERVELLI (BRAIN DRAIN PROGRAM) MIUR, D.M. n.96 del 23.04.2001, 01/03/2004-28/02/2007. Project title : Perceptual image modeling : bridging vision. (93000 euro). Individual fellowship  |
| 2009-2011 | PRIN-2009, BrainFit : Brain tractography from diffusion imaging for radiotherapical and surgical planning (Trattografia da risonanza in diffusione per la pianificazione radioterapica e chirurgica) in collaboration with the Dept. of Neurosurgery of the University of Verona and the Signal Processing Lab. (LTS5) of EPFL (Prof. J.-Ph. Thiran). (55142 euro)<br>Role: national coordinator (PI) |

### University Co-Funded Projects

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| 2015 | Joint Project, Brain microstructural modeling for improved TMS anchoring, in collaboration with the Dept. of Medicine, Surgery and Health Sciences, Clinical Neurology Unit, Cattinara University Hospital, Trieste, Italy (Prof. P. Manganotti) end EBNeuro s.r.l. (27300 euro), Role PI |
| 2014 | Joint Project, Investigation of structural and functional brain connectivity from multimodal data, in collaboration with the Dept. of Neurology (Prof. P. Manganotti) end EBNeuro s.r.l. (31000 euro), Role: PI   |
| 2012 | Joint Project, AHeAD, Automatic Human behavior Analysis in neurological Diseases: the case of epilepsy in collaboration with the Dept. of Neurology (Prof. P. Manganotti, PI) end EBNeuro s.r.l. (20000 euro). Role: Scientific coordinator   |
| 2011 | Joint Project, Highly reliable image-guided multimodal neuro-navigation for motor cortex stimulation, in collaboration with the Dept. of Neurology (Prof. P. Manganotti) end EBNeuro s.r.l. (30000 euro). Role: PI  |
| 2010 | Joint Project, Assessment of tumor infiltrative region in glioma mouse models: development of ad hoc data processing for advanced MRI techniques, in collaboration with the NRM Lab, of the University of Verona and Nerviano Medical Systems. (30000 euro). Role: PI                     |

## Other Funding

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| 2016 | Verona Brain Foundation, PI F. Pizzini, MD, PhD. Project: Mapping functional connectivity patterns in neurological and neurosurgical diseases with Arterial Spin Labeling and Blood Oxygenation Level Dependent MRI (16000 euros)  |
| 2016 | Contract for research activity funded by Azienda Ospedaliera Universitaria Integrata, Dept. of Pathology and Diagnostics, UOC of Neurology. Project: A non-invasive multi-modal approach to restore functional networks and cognition in Alzheimer disease in fronto-temporal dementia (13000 euros)   |
| 2016 | DGR nr. 2121 del 30 dicembre 2015 nell'ambito del Programma Operativo Regionale - Fondo Sociale Europeo 2014 - 2020, in collaborazione with EBNeuro Spa. Title: Studio, implementazione e validazione di interfacce per sistemi robotici   |
| 2013 | Contributi per l'inserimento nelle imprese di personale qualificato di ricerca" (POR Misura II), nell'ambito del Programma di finanziamento Regionale Operativo 2007/2013 Parte FSER Asse 1, Azione 1.1.3, Misura II, Regione Veneto, in collaborazione con QR Srl, Verona, Fusione e quality assessment di immagini da TC volumetrica Cone Beam, (34000 euro). Role: PI |
| 2010 | Contract for research activity (Accordo di collaborazione) with CEFLA SA. Project: Processing of volumetric data for CBCT NewTom applications. (25500 euro). Role: Scientific leader   |

## Other institutional funding

|           |  |
|-----------|--|
| 2016      | Funding from the Doctoral School of Natural and Engineering Sciences for the organization of the Summer School of Brain Connectomics (10000 euros)   |
| 2015      | post-doc grant, Dept. of Computer Science. Project title: Tissue microstructure characterization in human brain in-vivo using diffusion MRI (23000 euros, co-funded)   |
| 2014      | post-doc grant, Dept. of Computer Science. Project title: Pattern recognition in Neuroimaging (23000 euros, co-funded).  |
| 2012      | post-doc grant, Dept. of Computer Science. Project title: Sparse and reliable modeling of cortical connections (23000 euros, co-funded)  |
| 2011      | post-doc grant, Dept. of Computer Science. Project title: Assessment of the functional cortical activity in cognitive tasks by EEG recordings (23000 euros)  |
| 2009      | post-doc grant, Dept. of Computer Science. Project title: Exploring brain highways. (23000 euros)  |
| 2008-2010 | PhD grant for fostering international collaborations, University of Verona. Project title: Perceptual issues in medical imaging and minimally invasive surgery. In collaboration with the Imperial College, London |
| 2008      | Research funding, Dept. of Computer Science. Purchase of the ViSage (Cambridge Research) for research in visual perception. (20000 euros)  |



## **Funding Abroad**

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| 2003-2008 | Ramon y Cajal grant, Spanish Ministry of Science and Technology, withdrawn after grant assignment for joining the Rientro dei Cervelli program            |
| 2002-2005 | Swiss National Science Foundation (SNF). Grant number 21067012.01. Progetto: Perceptual modeling of color textures (131.016 CHF)                          |
| 2001-2003 | EPFL internal research grant. Project title: Image models built on joint texture and color characterization for natural images in digital imaging systems |

## **Projects With Positive Evaluation But Not Funded**

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| 2016 | PRIN-2015: Connecting microstructural features with regional specificity for brain tumours: a multi-modal approach (CONNECT), Role: Principal Investigator and National Coordinator. |
| 2016 | Joint Project, Automated Psychological assessment of Cognitive load (APsyCo), in collaboration with EBNeuro SPA and the Dept. of Molecular Medicine, University La Sapienza, Roma.   |
| 2011 | Multiscale INTERdisciplinary CORTical DECryption, ERC Starting Grant. (ERC-StG 2012, Proposal number 307826)   |

## **PATENTS**

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| 2015 | EP2868275 (A1) Method and apparatus to increase the field of view in a cone beam computerized tomography acquisition. Inventors Sandri C., Menegaz G., Morsiani, Simonetti F., Rivalta B. Applicant CEFLA COOP IT, application n. EP20140189592 20141020, Priority n. ITBO2013A000599 20131031, Also published as US2015117592 (A1) KR20150050385 (A) ITBO20130599 (A1) CN104586417 (A) |
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## **INTERNATIONAL EVENT ORGANIZATION**

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| 2016 | Summer School of Brain Connectomics, Sept. 19-22, Department of Computer Science, University of Verona |
| 2014 | Verona Diffusion Workshop, May 16, Department of Computer Science, University of Verona                |

## **RESEARCH EVALUATION ACTIVITIES**

### **Independent Expert For The European Commission**

|      |  |
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| 2016 | VICE-CHAIR H2020 MSCA Individual Fellowships Call 2016 for panel LIF (Life Sciences)                   |
| 2015 | Selected as VICE-CHAIR: H2020 FET OPEN RIA Call 2016-2017  |
| 2015 | Selected as VICE-CHAIR: H2020 FETOPEN 2014-2015 REA 2015 (Suspended for possible conflict of interest) |
| 2015 | EVALUATOR AND RAPPORTETUR: H2020-MSCA-IF-2015  |

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| 2015       | EVALUATOR: H2020-FET OPEN-2015-1-REA and H2020-PHC11, remote evaluation   |
| Since 2006 | EVALUATOR: panel member and rapporteur, DG-Research. Calls: New and Emerging Science and Technology (FP6-NEST), European Research Council (FP7-ERC), European Spatial Agency (ESA) and ICT (Brain inspired ICT)<br>REVIEWER: Directorate General for Information Society and Media (DG-INFOS) FP6 and FP7<br>EVALUATOR: Directorate General for Information Society and Media (DG-INFOS), calls FP6 and FP7 Information and Communication Technologies (ICT). Funding instrument: Integrated Projects (IP), Networks of Excellence (NoE) and Single Target Research Projects (STREPS) |

### **Independent Expert For The Italian Ministry of University And Research (MIUR)**

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| Since 2014 | EVALUATOR: Calls: Scientific Independence of Young Researchers (SIR-2014)                               |
| Since 2012 | EVALUATOR: Calls: Projects of national interest (PRIN) and Future in Research (Futuro in Ricerca, FIRB) |

### **Independent Expert For Other Institutes**

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| 2016 | European Science Foundation (ESF) College of Expert Reviewers (until 2019)  |
| 2010 | EVALUATOR: Swedish Knowledge Foundation ( <a href="http://www.kks.se">www.kks.se</a> ) (2010)   |
| 2011 | EVALUATOR: Agence Nationale de Recherche, France, LABEX ( <a href="http://www.agence-nationale-recherche.fr">http://www.agence-nationale-recherche.fr</a> ) |

## **EDITORIAL ACTIVITIES**

### **Boards And Charing**

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| 2015 | Area Chair: International Conference on Image Processing (ICIP-2015), Session 6.3. ARS-IIU Image & video interpretation and understanding, IEEE |
| 2015 | Area Chair: European Signal Processing Conference (EUSIPCO2015), European Association for Signal Processing (EURASIP)                           |
| 2010 | Chair: Section 4a, International Conference on Neural Computation (ICNC 2010)   |
| 2009 | Poster Teaser Section in Medical Image Analysis, MICCAI, Imperial College, London, Sept. 20-24  |

### **Editing and reviewing**

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| 2016  | Lead Guest Editor, Biomed Research International, Special issue, in preparation, Hindawi Pub. Corp.              |
| 2012- | Associate Editor: EURASIP Springer Open J. on Image & video Processing, since May                                |
| 2008  | Guest Editor: Special Issue of the IEEE/OSA Journal of Display Technology on Medical Displays, Volume n. 4, 2008 |

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| 2007 | Associate Editor: EURASIP Journal of Applied Signal Processing (since 2004), Editor Special Issue on Image Perception |
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**Reviewing and Technical Program Commettes**

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| Reviewer | IEEE Trans. on Image Processing, IEEE Trans. on Medical Imaging, IEEE Trans. on Information Technology in BioMedicine, International Journal of Biomedical Imaging, Neuroimage, Fronteers of Neurosciences, Brain Research Bulletin, Int. J. on Neural Systems, Biomedical Signal Processing and Control, Current Medical Imaging Reviews, Annales de Biologie, Signal Processing Journal, EE Proceedings Circuits, Devices and Systems, Computer Methods and Programs in Biomedicine, Elsevier Journal of Electronic Imaging, IEEE Trans. on Circuits and Systems for Video Technology, Systems Man and Cybernetics, Elsevier Neurocomputing, Image and Video processing journal, Computer Methods and Programs in Biomedicine, Elsevier Systems Man and Cybernetics, Signal Processing Letters International, Journal of Computers and Applications |
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| Technical Program Commettee | IEEE International Conference on Biomedical Imaging (ISBI), MICCAI Medical Image Computing and Computer Aided Intervention, International Conference on Image Processing (ICIP), Int. Conf. on Acoustic, Speech and Signal Processing (ICASSP), IEEE Image and Multidimensional Signal Processing (IMDSP), European Signal Processing Conference (EUSIPCO), IEEE International Workshop on Multimedia Signal Processing (MMSp), Workshop and Special Issue on Generative-Model Based Vision (GMBV 2004) |
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**VISITS TO FOREIGN INSTITUTIONS**

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| 9/2012  | Teaching staff mobility - Signal Processing Lab. 5, EPFL, Switzerland   |
| 6/2012  | Visiting professor, UMR-CNRS 6168, Université de la Méditerranée, Aix-Marseille II, France  |
| 6/2011  | Visiting professor, UMR-CNRS 6168, Université de la Méditerranée, Aix-Marseille II, France  |
| 10/2010 | Cooperint – Mobility grant from the University of Verona - Visiting researcher at the Faculty of Engineering, Department of Computing and Hamlyn Centre of Robotic Surgery of the Imperial College, London UK |
| 9/2010  | Cooperint - Mobility grant from the University of Verona - Visiting researcher presso CNRS-UMR, 6168 Marseille, France  |
| 6/2010  | Visiting professor, UMR-CNRS 6168, Université de la Méditerranée, Aix-Marseille II, France  |
| 2/2010  | Teaching staff mobility - Signal Processing Lab., EPFL, Switzerland   |
| 6/2008  | Visiting professor, UMR-CNRS 6168, Université de la Méditerranée, Aix-Marseille II, France  |
| 1/2007  | Visiting professor, UMR-CNRS 6168, Université de la Méditerranée, Aix-Marseille II, France  |
| 7/2005  | Visiting professor, LSIS, UMR-CNRS 6168, Ecole d'Ingénieurs de Luminy, Université de la Méditerranée, Aix-Marseille II, France  |

## HONORS AND AWARDS

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| 2010 | Best Student Paper Award. Registration Accuracy Assessment on Noisy Neuroimages, Pizzorni Ferrarese F., Simonetti F., Foroni R., Menegaz G., in Proceedings of IEEE International Conference on Information Technology and Applications in Biomedicine 2010, Corfu, Greece , 3-5 November , 2010 |
| 2004 | Selected for Who's Who in Medicine and Healthcare, 2004-2005   |

## INVITED TALKS

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|---------|---|
| 05/2016 | Neurophysiology of Movement study Group. From planning to movement performance: analysis and methodological tools. "EEG signal analysis: a new approach for the investigation of motion patterns?", 61 National Congress of the Italian Neurophysiology Society, Sapienza Università di Roma, May 27, 2016. |
| 06/2011 | What color is the sea?, Annual meeting of the CNRS-LSIS lab., Giens, France.  |
| 10/2008 | Perceptual imaging, School of Electrical Engineering, Nanyang Technological University, Singapore.  |
| 1/2007  | Image perception : vision models for the multimedia , Faculty of Mathematical, Physical and Natural Sciences, University of Verona, Italy   |
| 7/2005  | Color vision : investigating higher order color mechanisms, and Wavelet-based texture modeling , Systems and Information Engineering, Laboratory, UMR-CNRS 6168, Marseille, France  |
| 12/2003 | 2003 Image models and visual perception : the case of textures , Department of General Psychology, University of Padova, Italy  |
| 9/2002  | Color Contrast Detection in Spatial Chromatic Noise , Institute of Neuroinformatics, University of Zurich, Winterthurerstr. 190, 8057 Zurich, Switzerland   |
| 7/2002  | Modeling 2D+1 Textures , Coherent States, Wavelets and Applications, Université catholique de Louvain, Louvain-la-Neuve, Belgium  |
| 5/2002  | Computational Vision : Image Models and Neural Representation, Institut National de la Santé et de la Recherche Médicale (INSERM) Cerveau et Vision, 18 avenue du Doyen Lepine, 69675 Bron Cedex, France  |
| 5/2002  | Model-based Image Processing , Universität Koblenz-Landau, Koblenz, Germany   |
| 1/2002  | Computational Vision : Relations between Image Models and Neural Representation, Department of Neurological and Vision Sciences, University of Verona, Italy  |
| 12/2001 | Some issues in medical imaging : analysis and compression , Universitaet Regensburg Augenklinik, D-93042 Regensburg, Germany  |
| 7/2001  | Model-based coding : JPEG2000 and beyond , Dept. of Computational Science and Artificial Intelligence (DECSAI), University of Granada, Spain  |
| 6/2000  | Wavelet-based Coding : JPEG2000 and beyond , CEFRIEL (Research and Education Center in Information Technology) in Milan, Italy  |

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| 5/2000 | Texture modeling for coding applications , Annual meeting of the "Group de contact FNRS Ondelettes et applications", Louvain la Neuve, Belgium |
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#### **SOCRATES-ERASMUS DEPARTMENT COORDINATION**

|           |  |
|-----------|--|
| 2013      | Université de Poitiers, France   |
| 2012      | Technical University Munchen (TUM), Germany  |
| 2010-2012 | Swiss Federal Institute of Technology, (EPFL), Signal Processing Lab.  |
| 2010-2012 | Université Aix-Marseille III, France   |
| 2008-2012 | Swiss Federal Institute of Technology, (EPFL), Signal Processing Lab.  |
| 2008-2011 | Technical University (TU), Wien, Austria   |
| 2008-2011 | LSIS CNRS-UMR 6168, Université de la Méditerranée Aix Marseille II   |
| 2008-2011 | Computer Vision Center (CVC), Universidad Autonoma de Barcelona  |
| 2004-2007 | Università degli Studi di Siena - LSIS CNRS UMR 6168 Université de la Méditerranée Aix Marseille II 2004-2007 Università di Siena - Département d'Informatique, Université de Fribourg, Suisse |
| 2004-2007 | Università degli Studi di Siena LSIS, Université de la Méditerranée Aix Marseille II, Francia  |
| 2004-2007 | Università degli Studi di Siena - Dept. of Computer Science, University of Fribourg, Switzerland   |

#### **ASSOCIATIONS AND MEMBERSHIPS (selection)**

|          |  |
|----------|--|
| MICCAI   | Medical Image Computing and Computer Assisted Interventions                      |
| ISMRM    | International Society for Magnetic Resonance in Medicine                         |
| IEEE     | The Institute of Electrical and Electronics Engineers, valued member, since 1995 |
| IEEE-WIE | IEEE Women in Engineering, 2000  |
| SINC     | Italian Society for Clinical Neurophysiology                                     |
| ITC      | Italian Color Group  |
| OSA      | The Optical Society of America, 2007-2012  |
| SPIE     | The International Society for Optical Engineering, 2006                          |

#### **LANGUAGE SKILLS**

|         |                             |
|---------|-----------------------------|
| Italian | Mother tongue               |
| English | Very good, oral and written |
| French  | Excellent, oral and written |