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DR Università di Roma "La Sapienza" D.R. n. 3121/2021 del 24/11/2021 – cod. concorso  
**2021POR054**

MARIA DE MARSICO  
Curriculum Vitae

Rome  
28/11/2021

**Part I – General Information**

Full Name	MARIA DE MARSICO
Date of Birth	
Place of Birth	PELLEZZANO (SA)
Citizenship	ITALIAN
C.F.	
Permanent Address	
Mobile Phone Number	
E-mail	maria.demarsico@uniroma1.it
Spoken Languages	ITALIAN - ENGLISH

**Part II – Education**

Type	Year	Institution	Notes (Degree, Experience,...)
University graduation	1988	University of Salerno	110/110 cum laude. Thesis title: "Structures and visual languages." The dissertation analyzed various approaches to image segmentation, with particular reference to techniques of structural type.
University graduation (master degree)	2004	University of Salerno	110/110 cum laude. Thesis title: "Proposal of a methodology for the evaluation of websites based on user expectations". The thesis discusses problems and approaches related to the evaluation of websites, and a methodology involving users in the evaluation design process is proposed and tested. The title was achieved before the declaration of equivalence of the two degrees.
Post-graduate studies	1991	The Center For High Performance Computing of Worcester Polytechnic	Stage on Parallel programming

Post-graduate studies	1992	Institute, Marlborough – Massachusetts – USA University of Florence	IAPR School "La Visione delle Macchine" (Machine Vision)
Post-graduate studies	1992	Sapienza University of Rome	Seminar school on "Methodological Issues for Interface Design: a User-Centered Approach" held by Prof. Albert N. Badre (College of Computing, GVI Center – Graphics, Visualization and Usability, Georgia Institute of Technology)
Post-graduate studies	1993	IASS (Istituto Internazionale per gli Alti Studi Scientifici – International Institute for High Scientific Studies) - Salerno	Course on "Parallel Computing and Image Analysis"
Post-graduate studies	1993	Ugo Bordoni Foundation	Seminars on Technologies and Multimedia Applications

### Part III – Appointments

#### IIIA – Academic Appointments

Start	End	Institution	Position
2015	---	Sapienza University of Rome	Associate Professor
2001	2015	Sapienza University of Rome	Assistant Professor
1990	2001	Sapienza University of Rome	Technical Executive - System Administrator – Research activities in this period are certified by publications produced from 1997

#### IIIB – Other Appointments

Start	End	Institution	Position
1983	1990	Ministry of Education	Tenured Teacher in Primary School

#### IIIC – Qualifications

Year	Institution	Position
2019	Ministry of University and Research	National Qualification as Full Professor - SSD ING-INF/05 – SC 09/H1
2017	Ministry of University and Research	National Qualification as Full Professor - SSD INF/01 – SC 01/B1
2014	Ministry of University and Research	National Qualification as Associate Professor - SSD INF/01 – SC 01/B1

2013	Ministry of University and Research	National Qualification as Associate Professor - SSD ING-INF/05 – SC 09/H1
1990	Ministry of Education	National Qualification for High School teaching – Industrial Informatics – achieved valid ranking for tenure
1990	Ministry of Education	National Qualification for High School teaching – Industrial Informatics – Applied Mathematics - achieved valid ranking for tenure
1988	University of Salerno	Qualification in the selection for a Graduate Technician

#### Part IV – Teaching experience

##### IVA – In Degree Courses at Sapienza – Department of Computer Science

Year	Institution	Lecture/Course
From 2011/2012 <b>(ongoing)</b>	Department of Computer Science	Course of Multimodal Interaction – MSc degree in Computer Science– in alternate years from 2014/2015 up to 2017/2018 and then every year
From 2014/2015 <b>(ongoing)</b>	Department of Computer Science	Course of Biometric Systems – MSc degree in Computer Science and in Cybersecurity – in alternate years from 2014/2015 up to 2017/2018 and then every year
From 2016/2017 <b>(ongoing)</b>	Department of Computer Science	Course of Basi di Dati – Modulo 1 for the BSc degree in Computer Science
From 2015/2016 <b>(ongoing)</b>	Sapienza - UNITELMA	Course and tutoring of Basi di Dati – Modulo 1 for the Distance BSc degree in Computer Science
From 2011/2012 to 2014/2015	Department of Computer Science	Practice lessons for the course fo Fondamenti di Programmazione – Prof. F. Pellacini
2009/2010	Department of Computer Science	Course of Laboratorio di Sistemi Interattivi – BSc and Msc
From 2001/2002 to 2008/2009	Department of Computer Science	Courses (ordered by system) of Laboratorio di Informatica III: Basi di dati (five years degree) and Laboratorio di Basi di Dati I (BSc ex-509)
From 2001/2002 to 2003/2004, from 2005/2006 to	Department of Computer Science	Lectures for the courses (ordered by system) Basi di Dati e Sistemi Informativi I e Laboratorio di Informatica III: Basi di Dati (five years degree) and Basi di Dati I (BSc ex-509) – Prof. F.M. Malvestuto

2007/2008 and 2010/2011	Department of Computer Science	Practice lessons for the courses (ordered by system) Basi di Dati e Sistemi Informativi I e Laboratorio di Informatica III: Basi di Dati (five years degree) and Basi di Dati I (BSc ex-509) – Prof. M. Moscarini
From 2000/2001 to 2007/2008 and 2010/2011	Department of Computer Science	Lectures on “Information Visualization” for the course of Human-Computer Interaction – Prof. S. Levialdi
From 2000/2001 to 2004/2005	Department of Computer Science	Lectures on “Image retrieval from pictorial databases” for the course of Computer Vision – Prof. S. Levialdi
1995/1996	Department of Computer Science	Lectures for the course of Sistemi per l'Elaborazione dell' Informazione II – Prof. G. Bongiovanni
From 1991/92 to 1994/95	Department of Computer Science	Lectures for the course of Sistemi per l'Elaborazione dell' Informazione II – Prof. G. Bongiovanni

#### IVB – In Degree Courses at Sapienza – Other Departments or Faculties

Year	Institution	Lecture/Course
2015/2016 and 2016/2017	Sapienza – Faculty of Information Engineering, Informatics, and Statistics	Course of Informatica for the BSc degree course in Statistica, Economia, Finanza e Assicurazioni
2007/2008	Sapienza – Faculty of Communication Science	Course of Informatica Generale – BSc courses of the Faculty of Communication Science
2005/2006 and 2006/2007	Sapienza – Faculty of Communication Science	Course of Organizzazione e Gestione di Banche Dati – MSc courses of the Faculty of Communication Science

#### IVC – In University Master Courses in Italian and foreign Institutions

Year	Institution	Lecture/Course
From 2014/2015 to 2016/2017	Université Paris-Est Créteil (UPEC) - Faculté des Sciences et Technologies	Lecture “Some approaches to 2D face recognition based on local techniques“ for the International Master of Biometrics
2013	University of Salerno	“Videosorveglianza” in Modulo MA4 of the Master in “Security and INTElligence SYStem”
2001/2002	Sapienza – Departments of Sociology and Communication and of Computer Science and Esosfera	Lectures in the modules of Fundamentals of Communications and Networks for the masters in “Gestione e Marketing di Imprese E-Services”, “Gestione e Marketing di Imprese di TV Digitale”, and “Gestione e

#### IVD – Thesis Supervisor

Supervisor for about two hundred theses and internship reports mainly in the following areas:

- biometric systems
- design and implementation of advanced interfaces
- image processing
- design, implementation and evaluation of e-learning tools

#### Part V – Participation in PhD activities and committees

##### VA – Membership in Faculty Boards of PhD Courses

Year	Faculty Board
From 2017 <b>ongoing</b>	Sapienza University of Rome - PhD in Data Science (subject to assessment of requirements)
From 2010 to 2017	Sapienza University of Rome - PhD in Computer Science (subject to assessment of requirements)
From 2001 to 2010	Sapienza University of Rome - PhD in Computer Science

##### VB – Teaching in PhD courses in Italian Institutions

Year	Institution	Lecture/Course
2014	GIRPR – Gruppo Italiano Ricercatori in Pattern Recognition – Italian chapter of IAPR	<b>Scientific co-director</b> of GIRPR PhD Summer School “VISMAL - La visione delle macchine”
2014 and 2015	Sapienza University of Rome	Lecture "Biometric Systems" in the series Great Ideas in ICT organized by the PhD school in Information and Communication Science and Technology of Sapienza University of Rome
2010	University of Salerno	Lecture “Show me your face and I’ll show you who you are: Information Fusion in Biometric Multimodal Systems” in the series of PhD seminars of Computer Science

##### VC – Teaching in PhD courses in Foreign Institutions

Year	Institution	Lecture/Course
2017	St. Petersburg National Research University of Information	Lectures with titles “Recent Advances in Biometric Research” and “Countermeasures

	Technologies, Mechanics And Optics (ITMO University)	against face spoofing” in the context of PhD school
2015	Université Paris-Est Créteil (UPEC) - Faculté des Sciences et Technologies	Lecture “Local approaches to 2D face recognition“ for the International Summer School: Facial Biometrics and Applications

#### VD – Advisor for PhD Students

Year	Institution	Lecture/Course
From 2015/2016 to 2018/2019	Sapienza – Department of computer Science	Advisor of Alessio Mecca and Bodor Almubaddel – PhD cycle 31
2018	Sapienza – Department of computer Science	Scientific responsible for the six months scholarship by the Italian Ministry of Foreign Affairs of Galina Lavrentyeva, PhD student of the Department of Speech Information Systems of St. Petersburg National Research University of Information Technologies, Mechanics And Optics (ITMO University)
From 2012/2013	Sapienza – Department of computer Science	Daniele Cipriani – PhD cycle 28 - Retired
From 2011/2012 to 2014/2015	Sapienza – Department of computer Science	Advisor of Fabrizio Borgia – PhD cycle 27 – co-tutorship with Université Paul Sabatier - Toulouse III, in collaboration with Prof. Patrice Dalle

#### VE – Reviewer of PhD Theses for Italian and foreign institutions

Year	Institution/PhD Course	Candidate
2018/2019	University of Cagliari -- Department of Mathematics and Computer Science – PhD in Computer Science	Cycle XXXII – Dott. Mirko Marras
2018/2019	Free University of Bozen – Faculty of Computer Science - PhD in Computer Science	Cycle XXXI – Dott. Mehdi Rizvi
2017/2018	University of Cagliari -- Department of Mathematics and Computer Science – PhD in Computer Science	Cycle XXXI - Dott. Andrea Loddo
2017/2018	University of Milano -- Department of Computer Science “Giovanni Degli Antoni”– PhD in Computer Science	Cycle XXXI - Dott. Marco Granato
2017/2018	Czech Technical University – Praga	Dott. Mikulas Krupicka - also Member of Committee for final exam
2016/2017	University of L’Aquila - Department Of Clinical Medicine, Public Health, Sciences of Life and Environment -	Cycle XXX - Dott. Matteo Spezialetti

	PhD in Health and Environmental Sciences	
2016/2017	University of Salerno – PhD in Information sciences and technologies, complex systems and environment	Cycle XIII - Dott. Mădălina Georgeta Ciobanu - also Member of Committee for final exam
2016/2017	University of Salerno – PhD in Management and Information Technology	Cycle XVI – Dott. Paola de Roberto - also Member of Committee for final exam
2015/2016	University of Salerno – PhD in Management and Information Technology	Cycle XV – Dott. Dott.ssa Valentina Indelli Pisano
2014/2015	University of TELECOM SudParis	Dott. Nadia Othman - also Member of Committee for final exam
2014/2015	University of Salerno and TELECOM ParisTech	Dott. Chiara Galdi - also Member of Committee for final exam
2010/2011	University of Salerno – PhD in Computer Science	Cycle IX - Member of Committee for final exam
2008/2009	University of Bari – PhD in Computer Science	Cycle XX and XXI - Member of Committee for final exam

VF – Member of the Committee for the admission to the PhD course in Computer Science

Year	Institution/PhD Course
2017/2018	Sapienza University of Rome – Department of Computer Science - Cycle XXXIII
2011/2012	Sapienza University of Rome – Department of Computer Science - Cycle XXVII
2006/2007	Sapienza University of Rome – Department of Computer Science - Cycle XXII

## Part VI - Society memberships, Awards and Honors

Year	Title
From 2019/ <b>ongoing</b>	<b>IEEE Senior Member</b> (member since 2000) – Requires references from IEEE Senior Members or Fellows
From 2018/ <b>ongoing</b>	<b>Vice-President of IEEE Italy Section Biometrics Council Chapter (ISBCC BIO46) – elective position</b>
From 2012/ <b>ongoing</b>	Member of IEEE CISTC Communications and Information Security Technical Committee
From 2014/ <b>ongoing</b>	Member of IEEE-IES Technical Committee on Factory Automation – FA10: Computer vision and Human-Machine Interaction in Industrial and Factory Automation
From 2019/ <b>ongoing</b>	Member of IEEE CIS Intelligent Systems Applications Technical Committee
From 2002/ <b>ongoing</b>	ACM Member

From 2008/ <b>ongoing</b>	Member of GIRPR (Gruppo Italiano dei Ricercatori in Pattern Recognition) italian chapter of IAPR – now CVPL - Associazione Italiana per la ricerca in Computer Vision, Pattern Recognition e Machine Learning
From 2012/ <b>ongoing</b>	Member INSTICC - Institute for Systems and Technologies of Information, Control and Communication
From 2013/ <b>ongoing</b>	Member of EAB - European Association for Biometrics

## Part VII - Funding Information [grants as PI-principal investigator or I-investigator]

### VIIA – National and international projects

Year	Title	Program
2019/ <b>ongoing</b>	Creation of a specific and customized software based on the specific needs of the CMRC Department IV, for the management of the authorization flows of the environmental functions attributed to the aforementioned Department.	Funded agreement with Città Metropolitana – Roma Capitale (CMRC) – Scientific Responsible
2016/ <b>ongoing</b>	01548C5NT - PE6 - COSMOS	PRIN 2015 – <b>PI UO Rome</b>
2009/2012	RBNE074T5L - E-learning, sordità, lingua scritta: un ponte di lettere e segni per la società della conoscenza	FIRB 2009 – <b>PI UO Rome</b>
2010/2012	UnderstandIT - Project Number - 2010-1-NO1-LEO05-01839	EU Leonardo Project
2009	Research contract by the Department of Mathematics and Computer Science of University of Salerno for “Design, implementation and validation of advanced interfaces for RFID applications”	Project “Value Go - progettazione, implementazione e validazione di frame work per l’analisi e la fusione di segnali mono e bidimensionali per la tracciabilità alimentare”
2005/2007	QUIS, QUality, Interoperability and Standards in e-learning (e-learning Project, Agreement n. 2004 – 3538 /001 – 001 ELE–ELEB14	EU-project under the eLEARNING programme, DG EAC/26/04 – WP leader
2003/2006	Web-Minds (Wide-scale, Broadband, Middleware for Network Distributed Services	FIRB 2002

### VIIIB – Sapienza University research projects (PI)

Year	Title
2017/ <b>ongoing</b>	Biometric Walk Recognizer: Riconoscimento di soggetti registrati attraverso la camminata
2014	The Emergence of Modern Subjectivity, 1680-1760: A Digital Analysis
2011	Moving iCARA



2010	iCARA: infomobilità usando un sistema Context Aware con funzioni di Realtà Aumentata
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## Part VIII – Research Activities

### VIIIA – Research interests

Keywords	Brief Description
Biometric systems	<p>The research topics are mainly related to image and signal processing. The academic and industrial research on biometric recognition is continuously increasing, raising new interest also out of the specialists arena. In the last fifteen years, the adoption of biometric systems has ranked among the safest security measures to enforce access control, also against attempts of identity theft. This is due to the possibility to recognize people thanks to their physical or behavioural characteristics. In addition, the use of biometric methods is expanding to support everyday life applications. Advanced ambient intelligence and smart cities technologies call for highly personalized and tailored services and applications based on automatically established user identity. The increasing computational resources of mobile devices and their use for a plethora of different application further open new scenarios for the use of biometric applications, run locally or also in the cloud (Biometrics as a Service – BaaS). Biometric traits dealt with in the research activity range from popular physical ones, e.g., face, iris and hand geometry, to behavioural ones, e.g., signature dynamics and gait pattern, with processing occurring on servers, on mobile devices or even in the cloud. Multibiometric fusion and spoofing detection are further related topics. Interaction through biometrics is a special case of multimodal interaction. For instance, processing of the user hand image can be used both for authentication and for gestural interaction with applications, e.g., driving a drone. Multimodal interaction, e.g., interaction with machines achieved through speech, gestures or other “natural” human modes is the basis for a new kind of User eXperience (UX) not limited by the traditional keyboard and mouse. Image and signal processing methods also underlie this very promising research area. In particular, multimodal interfaces can allow supporting users with special needs, e.g., blind or deaf people, who still encounter difficulties in accessing digital resources due to a kind of sensory digital divide. Multimodality allows designing and deploying advanced interfaces which are highly adaptable and possibly adaptive, in order to support also non-expert users, elder people and users with limited interaction possibilities in the use of advanced applications. The research related to distance learning is also mainly inspired by the need for personalization. In this case, educational effectiveness calls for tailoring contents and deployment strategies to learners’ skills and learning profile. In this context, strategies have been investigated to practically implement in distance learning the concept of Zone of Proximal Development (ZPD), devised by the Russian psychologist Lev Vygotsky.</p>
Biometrics as a Service (BaaS)	
Biometric interaction	
Multimodal interaction	
Advanced interfaces	
Interfaces for accessibility	
Advanced methodologies for distance learning	

### VIIIB – National and international collaborations

Year Title

2008/ongoing	Member of Biometric and Image Processing Lab (BIPLab) research laboratory at University of Salerno
2017/ongoing	Scientific Representative for the Framework Agreement between Sapienza University of Rome and e St. Petersburg National Research University of Information Technologies, Mechanics And Optics (ITMO University)
2017/ongoing	Scientific Representative for the Executive Protocol between the Sapienza Department of Computer Science and the Department of Speech Information Systems of St. Petersburg National Research University of Information Technologies, Mechanics And Optics (ITMO University)
2017	<b>Invited Visiting Researcher</b> St. Petersburg National Research University of Information Technologies, Mechanics And Optics (ITMO University)
2014	<b>Invited Visiting Researcher</b> CENATAV (Advanced Technology Application Center) – Cuba
2006/ongoing	Personal collaboration with international researchers, among which: <b>Prof. Harry Wechsler</b> – George Mason University – Virginia – USA; <b>Prof. Jean-Luc Dugelay</b> – EURECOM – France; <b>Prof. Patrice Dalle</b> – Université Paul Sabatier – Toulouse III – France; <b>CENATAV</b> (Advanced Technology Application Center) - Cuba ; <b>Prof. Modesto Castrillón-Santana</b> - Universidad de Las Palmas de Gran Canaria, Spain; <b>Prof. Hugo Hugo Proença</b> - Universidade da Beira Interior, Portugal; <b>Prof. Yuri Matveev</b> , St. Petersburg National Research University of Information Technologies, Mechanics And Optics (ITMO University)

#### VIIIC – Publications

See document Publications for the complete list of publications

#### VIIID - Awards

Year	Position
2020	<b>Best referee Award</b> assigned by International Joint Conference on Biometrics – IJCB 2020
2015	<b>Second Best paper Award</b> at International Conference on Distributed Multimedia Systems - DMS 2015
2014	<b>Best referee Award</b> assigned by International Joint Conference on Biometrics – IJCB 2014
2010	<b>6-th position over 67 participants in ranking of NICE II – Noisy Iris Challenge Evaluation Part II</b> – organized by Socialab - Soft Computing and Image Analysis Group - Department of Computer Science, University of Beira Interior, Portugal. The first 8 groups in rank were invited to submit a paper to a Special Issue of Pattern Recognition Letters – The accepted paper is: M. De Marsico, M. Nappi, and D. Riccio. Noisy Iris Recognition Integrated Scheme. Pattern Recognition Letters-Special Issue on the Recognition of Visible Wavelength Iris Images Captured At-a-distance and On-the-move Volume 33, Issue 8, 1 June 2012, Pages 1006–1011

#### Part IX – Participation in editorial Boards, Editing Activities and Conference Organization

IXA – Editorial positions

Year	Position
2019/ongoing	<b>Co-Editor in Chief of Pattern Recognition Letters</b> (CiteScore: 6.7 - Impact Factor: 3.756 - 5-Year Impact Factor: 3.615- Source Normalized Impact per Paper (SNIP): 1.739 - SCImago Journal Rank (SJR) 2020: 0.669)
2020/ongoing	<b>Associate Editor of Pattern Recognition</b> (CiteScore: 15.7 - Impact Factor: 7.74 - 5-Year Impact Factor: 7.299- Source Normalized Impact per Paper (SNIP): 3.419 - SCImago Journal Rank (SJR) 2020: 1.492)
2020/ongoing	<b>Associate Editor of IEEE Transactions on Biometrics, Behavior, and Identity Science</b>
2018/2019	<b>Area Editor of Pattern Recognition Letters</b> (formerly Associate Editor from 2015 to 2018)
2018/ongoing	<b>Editor in Chief of IEEE Biometrics Newsletter</b> created by IEEE Biometrics Council (formerly member of the Editorial Board from 2015 to 2018)
2012/2019	<b>Area Editor</b> of IEEE Biometrics Compendium (online) created by IEEE Biometrics Council (the publication has been terminated)
2015/ongoing	<b>Editorial Review Board member</b> for International Journal of Distance Education Technologies (IJDET)

IXB – Selected Books and Journal Special Issues Edited (the complete list in Appendix B1)

Year	Details
2017	<b>Book</b> - M. De Marsico, Michele Nappi, Hugo Proença (Eds.). “Human Recognition in Outdoor Unconstrained Environments - Using Computer Vision, Pattern Recognition and Machine Learning Methods for Biometrics” Elsevier – Academic Press. 2017; ISBN: 9780081007051
2014	<b>Book</b> - M. De Marsico, M. Nappi, M. Tistarelli (Eds.). Face Recognition in Adverse Conditions. IGI Global Book Series in Computational Intelligence and Robotics (ACIR); April 2014; DOI: 10.4018/978-1-4666-5966-7; ISBN: 978-1466659667
2020	<b>SI</b> - Maria De Marsico, Hugo Proença, Sambit Bakshi, Abhijit Das. Special Issue on Novel Insights on Ocular Biometrics In Image and Vision Computing. Image and Vision Computing. In progress
2020	<b>SI</b> – Maria De Marsico, Luciano Gamberini, Fabio Pittarello, Anna Spagnolli. Sustainable, empowering and emotional interactive multimedia. Multimedia Tools and Applications. In progress
2019	<b>SI</b> - Carmelo Ardito, Maria De Marsico, Davide Gadia, Dario Maggiorini, Ilaria Mariani, Laura Ripamonti, Carmen Santoro (Eds.). Multimedia Tools and Applications Volume 78, Issue 10, pp. 13353-13359, Special Issue on Advances in Human-Computer Interaction, May 2019
2017	<b>SI</b> - M. De Marsico, M. Nappi and H. P. Proença (Eds.). Pattern Recognition Letters, Volume 91, Pages 1-64 - Special Issue on Mobile Iris CHallenge Evaluation (MICHE-II), May 2017
2017	<b>SI</b> - M. De Marsico, D. Fogli (Eds.). Multimedia Tools and Applications, Volume 76, Issue 4, pp 4849–4854, Special issue on Multimedia for Advanced Human-Computer Interaction, February 2017
2016	<b>SI</b> - M. De Marsico, M. Frucci, D. Riccio (Eds.). Pattern Recognition Letters, Volume 82, Part 2, Pages 89-258 - Special Issue on An insight on eye biometrics, October 2016

2016	<b>SI</b> - A. Fred, M. De Marsico (Eds.). Neurocomputing, Volume 173, Part 1, Pages 1-124 - Special Issue on Advances in Pattern Recognition Applications and Methods - Selected papers from the 3rd International Conference on Pattern Recognition Applications and Methods (ICPRAM 2014), January 2016
2015	<b>SI</b> - M. Nappi and H. P. Proença, M. De Marsico, (Eds.). Pattern Recognition Letters, Volume Volume 57, Pages 1-88, Special Issue on Mobile Iris CHallenge Evaluation part I (MICHE I), May 2015
2009	<b>SI</b> - G. Vitiello, M. De Marsico (Eds.). Journal of Visual Languages e Computing, Volume 20 Issue 5, Pages 285-352 - Special Issue on Multimodal Interaction through Haptic Feedback, October 2009.

### IXC – Roles in Conference Organization

#### Role

#### Conferences

<b>Conference Program Chair or co-Chair</b>	International Conference on Pattern Recognition Applications and Methods - ICPRAM – Proceedings indexed by SCOPUS (annual, from 2013 <b>ongoing</b> )
	CHIItaly 2015 – Biannual Conference of the Italian Chapter of ACM SIGCHI – Proceedings in ACM Digital Library indexed by SCOPUS
	CHIItaly 2021 – Biannual Conference of the Italian Chapter of ACM SIGCHI – Proceedings in ACM Digital Library indexed by SCOPUS
	IJCB 2021 - International Joint Conference on Biometrics
<b>Workshop or Special Session Chair or co-Chair</b>	Workshop on Multimodal Interaction Through Haptic Feedback- MITH 2008, conference AVI 2008
	Special Session BTSA 2013, International Special Session on Biometrics: Technologies, Systems and Applications, conference ICPRAM 2013
	Parallel Session “Tools and Methodologies to support e-learning experience and effectiveness”, conference HCI International 2014
	Workshop on Insight on Eye Biometrics, IEB 2014 and IEB 2015, nell’ambito di SITIS - International Conference on Signal Image Technology & Internet Based Systems
	Workshops GHItaly 2017. GHItaly 2019 and GHItaly 2021- Games-Human Interaction, conference CHIItaly 2017, 2019, 2021
	Workshop GHItaly 2018 – Games-Human Interaction conference AVI 2018
	Workshops UBIO 2018 and UBIO 2019- International Workshop on Ubiquitous implicit BIometrics and health signals monitoring for person-centric applications, conference SITIS - International Conference on Signal Image Technology & Internet Based Systems.
	Workshop Women for Pattern Recognition – W4PR, conference ICPR 2020 – International Conference on Pattern Recognition
<b>Member of Conference Organization</b>	Advanced Visual Interfaces - AVI 2002 Trento (Co-editor and Scientific Secretariat)
	Advanced Visual Interfaces - AVI 2004 Bari (Short paper & Poster Chair)
	Advanced Visual Interfaces - AVI 2006 Venezia (Short paper & Poster Chair)

**Member of Program Committee (selected)**

Advanced Visual Interfaces - AVI 2012 Capri (Publicity Chair)
IEEE Workshop on Biometric Measurements and Systems for Security and Medical Applications BIOMS 2012 – BIOMS 2014 (Publication Chair)
CHI'09 - Biannual Conference of the Italian Chapter of ACM SIGCHI (Workshop Chair)
International Conference on Pattern Recognition - ICPR 2010 (Women in ICPR co-Chair)
Advanced Visual Interfaces - AVI 2010 Capri (Long Paper Chair)
IJCB 2010 – International Joint Conference on Biometrics (Doctoral Consortium Chair)
CHI'11 - Biannual Conference of the Italian Chapter of ACM SIGCHI (Program Chair)
IJCB 2010 – International Joint Conference on Biometrics(Program Chair)
Interaction Design for Children - IDC 2009
Interact 2009 – Interact 2011
AVI 2010 – AVI 2014 (Senior PC Member) – AVI 2016 (Senior PC Member) – AVI 2018 (Senior PC Member) – AVI 2020 (Senior PC member)
Didamatica 2010
Eurographics Italian Chapter Conference 2011 (EG-IT 2011)
IEEE Workshop on Biometric Measurements and Systems for Security and Medical Applications BIOMS 2012 – BIOMS 2013
IEEE Globecom 2012 - Communication and Information System Security Symposium
Emerging Security Technologies Conference – EST 2012 – EST 2013 – EST 2014 – EST 2017 – EST 2019
International Conference on Connected Vehicles and Expo – ICCVE 2012 – ICCVE 2013 – ICCVE 2014
International Conference on Biometrics – ICB 2013 – ICB 2015 - ICB 2016 – ICB 2018
18th Iberoamerican Congress on Pattern Recognition – CIARP 2013
International Conference on Pattern Recognition – ICPR 2014 – ICPR 2016 – ICPR 2018 – ICPR 2020
International Joint Conference on Biometrics – IJCB 2014 –IJCB 2017 – IJCB 2020
International Workshop on Biometrics - BIOMET 2014
International Conference on Web-based Learning - ICWL 2014 – ICWL 2015 – ICWL 2016 – ICWL 2017 - ICWL 2018 – ICWL 2019
IEEE Frontiers in Education – FIE 2015 – FIE 2016 – FIE 2017
International Conference on Information Technology Based Higher Education and Training – ITHET 2015 – 2016 – 2017 – 2018 – 2019
International Conference on Image Analysis and Processing – ICIAP 2015 – 2017 - 2019

## Part X – Institutional activities

### XA – Ministry reviewer

Year	Description
2016/ <b>ongoing</b>	Reviewer for program REPRISE - Ministry of University and Research
2019/ <b>ongoing</b>	Scientific expert for the “in itinere” evaluation of the project of R&D in the 12 areas identified by PNR 2015-2020, D.D. n. 1735 July 13 2017 with title “Telemonitoraggio e Telemetria in Ambienti intelligenti per Migliorare la Sostenibilità Umana” - ARS01_00860
2017	Reviewer of PRIN projects – Ministry of University and Research
2016/2018	Scientific expert on behalf of CNGR – Comitato Nazionale Garanti della Ricerca, for the “in itinere” evaluation of the technical-scientific annual reports of the project “Città della Scienza 2.0: nuovi prodotti e servizi dell’economia della conoscenza” – Fondo Integrativo Speciale per la Ricerca (FISR – CIPE) funded by Fondazione IDIS – Città della Scienza - Napoli
2016	Reviewer for University Research Projects – University of Verona
2014	Reviewer for program SIR (Scientific Independence of young Researchers) - - Ministry of University and Research

### XB – Department projects

2012/2013	Member of the working group of the Department of Computer Science for “Realizzazione di uno studio per l’analisi e la progettazione del nuovo sistema informativo del Consiglio Superiore della Magistratura”
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### XC – Faculty/department committees

2019 <b>ongoing</b>	Member of Faculty Peer Professors Students Committee (Commissione paritetica Docenti Studenti)
2001/2005	Member of Department Committee for Computational Resources
2001/2011	Member of Faculty Committee for Cultural Initiatives
2004/ <b>ongoing</b>	Member of Department Committee for Students Procedures

### XD – Member of Selection Committees

2021	Member of the Selection Committee for the selection procedure for hiring, with a fixed-term employment contract for a period of three years, of n. 1 temporary researcher pursuant to art. 24, paragraph 3, letter a) of Law no. 240 at University of Cagliari - Competition sector 01/B1 - Scientific-disciplinary sector INF/01, (D.R. n.1119 of 15.10.2021, G.U. n. 82 of 15.10.2021, amended by D.R. n.1126 of 19.10.2021
2021	Member of the Selection Committee for the selection procedure for hiring, with a fixed-term employment contract for a period of three years, of n. 1 temporary researcher pursuant to art. 24, paragraph 3, letter b) of Law no. 240 at the Department of Economics and Management – University of Brescia - Competition sector 01/B1 (Computer Science) - Scientific-disciplinary sector INF/01 (Computer Science), called by D.R. 409 of 20/04/2021

2018	Member of the Selection Committee for the selection procedure for hiring, with a fixed-term employment contract for a period of three years, of n. 1 temporary researcher pursuant to art. 24, paragraph 3, letter a) of Law no. 240 at LINK University - Competition sector 01/B1 - Scientific-disciplinary sector INF/01, called by D.R. 277 of 01/08/2108, Official Gazette 4th special series n.63 of 10/08/2018
2018	Member of the Selection Committee for the selection procedure for hiring, with a fixed-term employment contract for a period of three years, of n. 1 temporary researcher pursuant to art. 24, paragraph 3, letter a) of Law no. 240 at LINK University - Competition sector 01/B1(Computer Science) - Scientific-disciplinary sector INF/01 (Computer Science), called by D.R. 273 of 10/07/2108, Official Gazette 4th special series n.61 of 03/08/2018
2018	Member of the Selection Committee for the selection procedure for hiring, with a fixed-term employment contract for a period of three years, of n. 1 temporary researcher pursuant to art. 24, paragraph 3, letter a) of Law no. 240 at the Department of Engineering and Computer Science – University of Trento - Competition sector 01/B1 (Computer Science) - Scientific-disciplinary sector INF/01 (Computer Science), called by D.R. 412 of 29/05/2108
2009	Member of the Selection Committee for the comparative evaluation for the position of researcher - Telematic University TEL.M.A. - Faculty of Law - Scientific-disciplinary sector INF / 01 (Computer Science) Called by D.R. n. 17 of 09/07/2009
2006	Member of the Selection Committee for the comparative evaluation for the position of researcher - University of Pisa - Faculty of Mathematical, Physical and Natural Sciences - Scientific-disciplinary sector INF / 01 (Computer Science) - Official Gazette 4th special series n.54 of 18/07/2006
2004	Member of the Selection Committee for the comparative evaluation for the position of researcher - University of Naples “Parthenope” - Faculty of Sciences and Technology - Scientific-disciplinary sector INF / 01 (Computer Science) - Official Gazette 4th special series n.55 of 13/07/2004
2004	Member of the Selection Committee for the comparative evaluation for the position of researcher - University of Salerno - Faculty of Mathematical, Physical and Natural Sciences - Scientific-disciplinary sector INF / 01 (Computer Science) - Official Gazette 4th special series n.21 of 16/03/2004
2003	Member of the Selection Committee for the comparative evaluation for the position of researcher - University of Milano Bicocca - Faculty of Education Sciences - Scientific-disciplinary sector INF / 01 (Computer Science) - Official Gazette 4th special series n.26 of 01/04/2003
2001	Member of the Selection Committee for the reserved comparative evaluation for the position of researcher for personnel having the requisites required by art. 1 comma 10, Law 19/01/1999 n. 4 - University of Salerno - Faculty of Mathematical, Physical and Natural Sciences - Scientific-disciplinary sector INF / 01 (Computer Science) - Official Gazette 4th special series n.51 of 29/06/2001
2001	Member of the Selection Committee for the public competition, based on qualifications and exams, with 1 position in category D1 - economic position D1 - in the technical, technical-scientific and data processing functional area at the Department of Information Sciences - G.U. - IV special series - n.87 of 2/11/2001

## Part XI – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	208 (including 33 editorials)	SCOPUS	1997	2021
Papers [national]	2	SCOPUS	2014	2014
Books [scientific]	2	SCOPUS	2014	2017
Books [teaching]	0			

Total Impact Factor	101,602
Average Impact Factor	2,674
Total Citations	2176 (SCOPUS – November 27 2021)
Average Citations per Product	10,46
Hirsch (H) index	22 (SCOPUS)
Normalized H index*	1,1

\*H index divided by the academic seniority.

\*\* The computation of the total Impact Factor includes the journals indexed by JCR – Journal Citation References

## Part XII– Selected Publications

List of the publications selected for the evaluation. For each publication report title, authors, reference data, journal IF (if applicable), citations, press/media release (if any).

- [1] (2020) Danilo Avola, Luigi Cinque, Maria De Marsico, Alessio Fagioli, Gian Luca Foresti. LieToMe: Preliminary Study on Hand Gestures for Deception Detection via Fisher-LSTM. Pattern Recognition Letters, vol. 138, pp. 455-461, 2020. <https://doi.org/10.1016/j.patrec.2020.08.014> (IF 2020 = 3,756; N. of Citations= 4)
- [2] (2020) Paola Barra, Silvio Barra, Carmen Bisogni, Maria De Marsico and Michele Nappi. Web-Shaped Model for Head Pose Estimation: An Approach for Best Exemplar Selection. In IEEE Transactions on Image Processing, vol. 29, pp. 5457-5468, 2020. <https://doi.org/10.1109/TIP.2020.2984373> (IF 2020 = 10,856; N. of Citations = 15)
- [3] (2019) Maria De Marsico, Alessio Mecca. A Survey on Gait Recognition via Wearable Sensors. ACM Computing Surveys, Vol. 4, 2019, paper 86 <https://doi.org/10.1145/3340293> (IF 2019 = 7,99; IF 2020 = 10,282; N. of Citations = 16)
- [4] (2019) Silvio Barra, Aniello Castiglione, Fabio Narducci, Maria De Marsico, Michele Nappi. Biometric data on the edge for secure, smart and user tailored access to cloud services. Future Generation Computer Systems, Vol. 101, 2019, pp. 534-541 <https://doi.org/10.1016/j.future.2019.06.019> (IF 2019 = 6,125 IF 2020 = 7,187; N. of Citations = 12)
- [5] (2019) Silvio Barra, Maria De Marsico, Michele Nappi, Fabio Narducci, Daniel Riccio. A hand-based biometric system in visible light for mobile environments. Information Sciences, Volume 479, April 2019, Pages 472-485, <https://doi.org/10.1016/j.ins.2018.01.010> 001 (IF 2019 = 5,910; IF 2020 = 6,795; N. of Citations = 27)



- [6] (2018) Maria De Marsico, Michele Nappi, Fabio Narducci, Hugo Proença. Insights into the results of MICHE I - Mobile Iris CHallenge Evaluation. *Pattern Recognition*, Volume 74, 2018, Pages 286-304, <https://doi.org/10.1016/j.patcog.2017.08.028>. (IF 2018 = 5,898; IF 2020 = 7,740; N. of Citations = 28)
- [7] (2016) M. De Marsico, A. Petrosino, S. Ricciardi. Iris Recognition through Machine Learning Techniques: a Survey. *Pattern Recognition Letters*. Volume 82, Part 2, 2016, Pages 106–115, <http://dx.doi.org/10.1016/j.patrec.2016.02.001> (IF 2016 = 1,995; IF 2020 = 3,756; N. of Citations = 73)
- [8] (2015) M. De Marsico, M. Nappi, D. Riccio, H. Wechsler. Mobile Iris Challenge Evaluation (MICHE)-I, biometric iris dataset and protocols. *Pattern Recognition Letters*, Volume 57, May 2015, Pages 17–23, <http://dx.doi.org/10.1016/j.patrec.2015.02.009> (IF 2015 = 1,586; IF 2020 = 3,756 ;N. of Citations = 136)
- [9] (2015) M. De Marsico, M. Nappi, D. Riccio, H. Wechsler. Robust Face Recognition after Plastic Surgery Using Region-Based Approaches. *Pattern Recognition* 48(4), 2015, pp. 1257-1272, <https://dx.doi.org/10.1016/j.patcog.2014.10.004> (IF 2015 = 3,399; IF 2020 = 7,740; N. of Citations = 31)
- [10] (2014) M. De Marsico, C. Galdi, M. Nappi, D. Riccio. FIRME: Face and Iris Recognition for Mobile Engagement. *Image and Vision Computing*, December 2014, Volume 32, issue 12, pp. 1161-1172, <http://dx.doi.org/10.1016/j.imavis.2013.12.014> (IF 2014 = 1,587; IF 2020 = 2,818; N. of Citations = 115)
- [11] (2013) M. De Marsico, M. Nappi, D. Riccio, H. Wechsler. Robust Face Recognition for Uncontrolled Pose and Illumination Changes. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, Vol. 43, No. 1, January 2013, pp. 149-163  
<http://dx.doi.org/10.1109/TSMCA.2012.2192427> (IF 2013 = 2,169; IF 2020 = 13,451; N. of Citations = 97)
- [12] (2012) M. De Marsico, M. Nappi, and D. Riccio. Noisy Iris Recognition Integrated Scheme. *Pattern Recognition Letters*, Volume 33, Issue 8, 1 June 2012, Pages 1006–1011  
<https://doi.org/10.1016/j.patrec.2011.09.010> (IF 2012 = 1,266; IF 2020 = 3,756 ;N. of Citations = 41)
- [13] (2012) M. De Marsico, M. Nappi, D. Riccio. CABALA—Collaborative architectures based on biometric adaptable layers and activities. *Pattern Recognition*, Volume 45, Issue 6, June 2012, Pages 2348–2362 <https://doi.org/10.1016/j.patcog.2011.12.005> (IF 2012 = 2,632; IF 2020 = 7,740; N. of Citations = 6)
- [14] (2011) M. De Marsico, M. Nappi, D. Riccio, G. Tortora. NABS: Novel Approaches for Biometric Systems. *IEEE Transactions on Systems, Man, and Cybernetics — Part C: Applications and Reviews*. Volume: 41 Issue:4, July 2011, pp. 481-493  
<https://dx.doi.org/10.1109/TSMCC.2010.2060326> (IF 2011 = 2,009; IF 2020 = 2,968 as *IEEE Transactions on Human-Machine Systems*.; N. of Citations = 41)
- [15] (2010) M. De Marsico, M. Nappi, D. Riccio. FARO: FAcE Recognition Against Occlusions and Expression Variations. *IEEE Transactions on Systems, Man, and Cybernetics — Part A: Systems and Humans*, Vol. 40, No. 1, January 2010, pp. 121-132

<https://dx.doi.org/10.1109/TSMCA.2009.2033031> (IF 2010 = 2,093; IF 2020 = 13,451 as IEEE Transactions on Systems, Man, and Cybernetics: Systems; N. of Citations = 47)

Appendix B2 lists the above publications and also some relevant titles presented for evaluation (already mentioned in this curriculum)

Roma, 27 novembre 2021

Maria De Marsico

## Appendice B1

DR Università di Roma “La Sapienza” D.R. n. 3121/2021 del 24/11/2021 – cod. concorso **2021POR054**

Full list of publications co-authored by Maria De Marsico (integrates the *curriculum vitae*)

### PUBLICATIONS CO-AUTHORED BY MARIA DE MARSICO

#### On international journals:

- J1. M. De Marsico, L. Cinque, S. Levialdi: “Indexing pictorial documents by their content: a survey of current techniques”, *Image and Vision Computing* 15 (2) (1997) 119-141
- J2. A. Del Bimbo, M. De Marsico, S. Levialdi, G. Peritore: “Query-by-dialog: an interactive approach to pictorial querying”, *Image and Vision Computing* 16 (1998) 557-569
- J3. M. De Marsico, S. Levialdi: “Evaluating web sites: exploiting user's expectations”. *International Journal of Human-Computer Studies*. Volume 60, Issue 3 , March 2004, Pages 381-416
- J4. P. Bottoni, M. De Marsico, P. Di Tommaso, S. Levialdi, D. Ventriglia: “Definition of visual processes in a language for expressing transitions”. *Journal of Visual Languages and Computing* 15 (2004) pp 211-242.
- J5. C. Ardito, M.F. Costabile, M. De Marsico, R. Lanzilotti, S. Levialdi, T. Roselli, V. Rossano: “An approach to Usability Evaluation of E-Learning Applications”. *UAIS (Universal Access in Information Society)*. Special issue on User-Centred Interaction Paradigms for Universal Access in the Information Society. Vol. 4/3 March 2006, pp 270-283
- J6. M. De Marsico, S. Kimani, V. Mirabella, K.L. Norman, T. Catarci: “A Proposal Toward the Development of Accessible e-Learning Content by Human Involvement”. *UAIS (Universal Access in Information Society)*. Vol. 5/2 August 2006, pp 150-169.
- J7. M. De Marsico, M. Nappi, D. Riccio, G. Tortora. “A Multiexpert Collaborative Biometric System for People Identification”. *Journal of Visual Languages & Computing*, Volume 20, Issue 2, April 2009, Pages 91-100
- J8. A.F. Abate, M. De Marsico, S. Ricciardi, D. Riccio: “Normal Maps vs. Visible Images: Comparing Classifiers and Combining Modalities”. *Journal of Visual Languages and Computing* – Special issue on Advances in Multimodal Biometric Systems, Volume 20, Issue 3, June 2009, Pages 156-168
- J9. M. De Marsico, M. Nappi, D. Riccio. FARO: FAcE Recognition Against Occlusions and Expression Variations. *IEEE Transactions on Systems, Man, and Cybernetics — Part A: Systems and Humans*, Vol. 40, No. 1, January 2010, pp. 121-132

- J10. A. F. Abate, M. De Marsico, D. Riccio and G. Tortora. MUBAI: multiagent biometrics for ambient intelligence. *Journal of Ambient Intelligence and Humanized Computing* Vol. 2, 2011, pp. 81-89
- J11. M. De Marsico, M. Nappi, D. Riccio, H. Wechsler. Iris segmentation using pupil location, linearization, and limbus boundary reconstruction in ambient intelligent environments. *Journal of Ambient Intelligence and Humanized Computing*. Vol. 2, 2011, pp. 153-162
- J12. P. Bottoni, D. Capuano, M. De Marsico, A. Labella, S. Levialdi. DELE: A deaf-centred E-learning environment. *Chiang Mai Journal of Science*, Volume 38, Issue 2 SPEC. ISSUE, 2011, Pages 31-57
- J13. M. De Marsico, M. Nappi, D. Riccio, G. Tortora. NABS: Novel Approaches for Biometric Systems. *IEEE Transactions on Systems, Man, and Cybernetics — Part C: Applications and Reviews*. Volume: 41 Issue:4, July 2011, pp. 481-493
- J14. M. De Marsico, M. Nappi, and D. Riccio. Face Authentication with Undercontrolled Pose and Illumination *Signal Image and Video Processing*. - Vol. 5 N. 4 - Special Issue on Unconstrained Biometrics: Advances and Trends. pp. 401-413, November 2011
- J15. M. De Marsico, M. Nappi, D. Riccio, CABALA—Collaborative architectures based on biometric adaptable layers and activities. *Pattern Recognition*, Volume 45, Issue 6, June 2012, Pages 2348–2362.
- J16. M. De Marsico, M. Nappi, and D. Riccio. Noisy Iris Recognition Integrated Scheme. *Pattern Recognition Letters- Special issue on the Recognition of Visible Wavelength Iris Images Captured At-a-distance and On-the-move* Volume 33, Issue 8, 1 June 2012, Pages 1006–1011
- J17. M. De Marsico, G. Doretto, D. Riccio. M-VIVIE: a Multi-thread Video Indexer Via Identity Extraction. *Pattern Recognition Letters – Special Issue on Novel Pattern Recognition-Based Methods for Reidentification in Biometric Context- BIOCON – Volume 33, Issue 14, October 2012*, pp. 1882–1890
- J18. P. Bottoni, D. Capuano, M. De Marsico, A. Labella, DELE framework: an innovative sight on didactics for deaf people, *Journal of e-Learning and Knowledge Society*, v.8, n.3, September 2012, pp. 165-174
- J19. M. De Marsico, M. Nappi, D. Riccio, H. Wechsler. Robust Face Recognition for Uncontrolled Pose and Illumination Changes. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, Vol. 43, No. 1, January 2013, pp. 149-163
- J20. M. De Marsico, M. Nappi, D. Riccio, G. Tortora. Entropy Based Template Analysis in Face Biometric Identification Systems. *Journal of Signal, Image and Video Processing - Special Issue "Human Vision and Information Theory"*, Vol. 7, No. 3, May 2013, pp. 493-505
- J21. M. De Marsico, A. Sterbini, M. Temperini. A strategy to join adaptive and reputation-based social-collaborative e-learning, through the Zone of Proximal Development. *International Journal of Distance Education Technologies*. Vol. 11, Issue 3, pp. 12-31, 2013.

- J22. P. Bottoni, F. Borgia, D. Buccarella, D. Capuano, M. De Marsico, A. Labella. Stories and signs in an e-learning environment for deaf people. *International Journal on Universal Access in the Information Society*, Vol. 12, Issue 4, pp. 369-386, 2013. DOI: 10.1007/s10209-012-0283-y.
- J23. M. De Marsico, S. Levialdi, M. Nappi, S. Ricciardi. FIGI: Floating Interface for Gesture-based Interaction. *Journal of Ambient Intelligence and Humanized Computing*. Published online 12 August 2012. August 2014, Volume 5, Issue 4, pp 511-524. DOI: 10.1007/s12652-012-0160-9; ISSN: 1868-5137
- J24. M. De Marsico, M. Nappi, D. Riccio. ES-RU: an entropy based rule to select representative templates in face surveillance. *Multimedia Tools and Applications – Special issue on Advances in Multimedia Surveillance*. Published online 8 November 2012. November 2014, Volume 73, Issue 1, pp 109-128. DOI: 10.1007/s11042-012-1279-6; ISSN: 1380-7501.
- J25. S. Barra, M. De Marsico, M. Nappi, D. Riccio. Complex numbers as a compact way to represent scores and their reliability in recognition by multi-biometric fusion. *International Journal of Pattern Recognition and Artificial Intelligence*, Volume 28, issue 7, pp. 1460003-1, 1460003-19, DOI: 10.1142/S0218001414600039
- J26. M. De Marsico, C. Galdi, M. Nappi, D. Riccio. FIRME: Face and Iris Recognition for Mobile Engagement. *Image and Vision Computing*. Published online online 10 January 2014. December 2014, Volume 32, issue 12, pp. 1161-1172, DOI:10.1016/j.imavis.2013.12.014.
- J27. M. De Marsico, M. Nappi, D. Riccio, H. Wechsler. Robust Face Recognition after Plastic Surgery Using Region-Based Approaches. *Pattern Recognition* 48(4), pp. 1257-1272, 2015. Available online 14 October 2014. DOI: 10.1016/j.patcog.2014.10.004
- J28. M. De Marsico, M. Nappi, D. Riccio, H. Wechsler. Mobile Iris Challenge Evaluation (MICHE)-I, biometric iris dataset and protocols. *Pattern Recognition Letters*, Available online 27 February 2015, Volume 57, May 2015, Pages 17–23 - DOI: 10.1016/j.patrec.2015.02.009.
- J29. D. Caligiore, M. Mustile, D. Cipriani, P. Redgrave, J. Triesch, M. De Marsico, G. Baldassarre. Intrinsic motivations drive learning of eye movements: An experiment with human adults. *PLoS ONE*, Volume 10, Issue 3, 16 March 2015, Article number e0118705
- J30. D. Riccio, S. Caggiano, M. De Marsico, R. Distasi, M. Nappi, M. MOSAIC+: Fragment retrieval and reconstruction enhancement for virtual restoration. *Journal of Visual Languages & Computing*, Vol. 31 Part B, 139-149, December 2015. - DOI:10.1016/j.jvlc.2015.10.010
- J31. M. De Marsico, A. Petrosino, S. Ricciardi. Iris Recognition through Machine Learning Techniques: a Survey. *Pattern Recognition Letters*. Volume 82, Part 2, 2016, Pages 106–115. Available online 12 February 2016 – DOI: 10.1016/j.patrec.2016.02.001
- J32. M. De Marsico, L. Marchionni, A. Novelli, M. Oertel. FATCHA: biometrics lends tools for CAPTCHAs. *Multimedia Tools and Applications*. Available online April 2016. Vol 76 issue 4, 2017 - pp. 5117–5140 - DOI 10.1007/s11042-016-3518-8
- J33. M. De Marsico, A. Mecca. Biometric walk recognizer - Gait recognition by a single smartphone accelerometer. *Multimedia Tools and Applications*. Available online June 2016, Vol 76 issue 4, pp. 4713-4745, 2017. DOI 10.1007/s11042-016-3654-1

- J34. M. Castrillón-Santana, M. De Marsico, M. Nappi, D. Riccio. MEG: Texture operators for multi-expert gender classification. *Computer Vision and Image Understanding*: Available online September 2016. Vol. 156, 2017 – pp. 4-18. DOI 10.1016/j.cviu.2016.09.004
- J35. M. De Marsico, M. Nappi, D. Riccio, H. Wechsler. Leveraging implicit demographic information for face recognition using a multi-expert system. *Multimedia Tools and Applications*. Available online November 2016. Volume 76, Issue 22, pp 23383–23411, 2017 DOI 10.1007/s11042-016-4085-8
- J36. M. De Marsico, M. Nappi, H. Proença. Results from MICHE II – Mobile Iris CHallenge Evaluation II. *Pattern Recognition Letters*, Available online 21 December 2016, Volume 91, 1 May 2017, Pages 3-10 ISSN 0167-8655, <http://dx.doi.org/10.1016/j.patrec.2016.12.013>.
- J37. M. De Marsico, F. Sciarrone, A. Sterbini, & M. Temperini. Supporting Mediated Peer-Evaluation to Grade Answers to Open-Ended Questions. *EURASIA Journal of Mathematics, Science and Technology Education* Volume 13, Issue 4 (April 2017) - Special Issue on E-assessment and its role and possibility in facilitating future teaching and learning, pp. 1085-1106
- J38. Maria De Marsico, Michele Nappi, Fabio Narducci, Hugo Proença. Insights into the results of MICHE I - Mobile Iris CHallenge Evaluation. *Pattern Recognition*, Volume 74, 2018, Pages 286-304, ISSN 0031-3203, <https://doi.org/10.1016/j.patcog.2017.08.028>.
- J39. Maria De Marsico, Eugenio Nemmi, Bardh Prenkaj, Gabriele Saturni, G. House in the (Biometric) Cloud: A Possible Application. *IEEE Cloud Computing*, 5(4), 2018, 58-69.
- J40. Silvio Barra, Aniello Castiglione, Maria De Marsico, Michele Nappi, Kim-Kwang Raymond Choo. Cloud-Based Biometrics (Biometrics as a Service) for Smart Cities, Nations, and Beyond. *IEEE Cloud Computing*, 5(5), 2018, 92-100.
- J41. Silvio Barra, Maria De Marsico, Michele Nappi, Fabio Narducci, Daniel Riccio. A hand-based biometric system in visible light for mobile environments. *Information Sciences*, Available online 9 January 2018, Volume 479, April 2019, Pages 472-485, ISSN 0020-0255, <https://doi.org/10.1016/j.ins.2018.01.010>.
- J42. Maria De Marsico, Alessio Mecca. A Survey on Gait Recognition via Wearable Sensors. *ACM Computing Surveys*, Vol. 4, 2019, paper 86 <https://doi.org/10.1145/3340293>
- J43. Maria De Marsico, Federico Ponzi, Federico Scozzafava, Genoveffa Tortora. Biopen–Fusing password choice and biometric interaction at presentation level. *Pattern Recognition Letters*. Online since April 2018, Volume 126, 1 September 2019, pp. 92-101 <https://doi.org/10.1016/j.patrec.2018.04.030>
- J44. Andrea Coletta, Maria De Marsico, Emanuele Panizzi, Bardh Prenkaj, Domenicomichele Silvestri. MIMOSE: multimodal interaction for music orchestration sheet editors. *Multimedia Tools and Applications*. Online since June 2019 , Vol 78, 2019, pp. 33041–33068 <https://doi.org/10.1007/s11042-019-07838-0>
- J45. Silvio Barra, Aniello Castiglione, Fabio Narducci, Maria De Marsico, Michele Nappi. Biometric data on the edge for secure, smart and user tailored access to cloud services. *Future Generation Computer Systems*, Vol. 101, 2019, pp. 534-541

J46. Maria De Marsico, Alessio Mecca, Silvio Barra. Walking in a smart city: Investigating the gait stabilization effect for biometric recognition via wearable sensors. *Computers and Electrical Engineering*, Vol. 80, 2019, Article 106501 pp. 1-9

J47. Javier Lorenzo-Navarro, Modesto Castrillón-Santana, Enrico Santesarti, Maria De Marsico, Ico Martínez, Eugenio Raymond, May Gómez, Alicia Herrera. SMACC: A System for Microplastics Automatic Counting and Classification. *IEEE Access*. Vol 8:2020 pp. 25249-25261 <https://doi.org/10.1109/ACCESS.2020.2970498>

J48. Paola Barra, Silvio Barra, Carmen Bisogni, Maria De Marsico and Michele Nappi. Web-Shaped Model for Head Pose Estimation: An Approach for Best Exemplar Selection. In *IEEE Transactions on Image Processing*, vol. 29, pp. 5457-5468, 2020.

J49. Danilo Avola, Luigi Cinque, Maria De Marsico, Alessio Fagioli, Gian Luca Foresti. LieToMe: Preliminary Study on Hand Gestures for Deception Detection via Fisher-LSTM. *Pattern Recognition Letters*, vol. 138, pp. 455-461, 2020

J50. Silvio Barra, Carmen Bisogni, Maria De Marsico, Stefano Ricciardi. Visual Question Answering: which investigated applications? *Pattern Recognition Letters*, vol. 151, pp. 325-331, 2021.

J51. David Freire-Obregón, Paola Barra, Modesto Castrillón-Santana, Maria De Marsico. Inflated 3D ConvNet Context Analysis for Violence Detection. Accepted for publication in *Machine Vision and Applications*.

#### **In proceedings of international conferences:**

C1. L. Cinque, M. De Marsico, A. Pellicano: "Shape and Color Features for Query by Example", International Symposium on Image/Video Communications over Fixed and Mobile Networks - 17-20 Aprile 2000 Rabat, Marocco

C2 P. Bottoni, M. De Marsico, P. Di Tommaso, S. Levialdi, D. Ventriglia: "Uniform representation of transition concepts in Domain Specific Visual Languages". In . Proceedings of the Second Domain Specific Modeling Languages Workshop - An OPPSLA 2002 Workshop. Seattle November 2002, pp. 9-16.

C3. S. Levialdi, M. De Marsico: "Interaction & Distance education" .In: J. Jacko and C. Stephanidis (eds). Proceedings of HCI International 2003 Volume 1, pp. 361-365 (22-27 giugno 2003 Creta)

C4. P. Bottoni, M. De Marsico, P. Di Tommaso, S. Levialdi, D. Ventriglia, "On the notion of transition in Visual Languages ", In: Proceedings HCC 2003, pp.117-119.

C5. C. Ardito, M. De Marsico, R. Lanzilotti, S. Levialdi, V. Rossano, M. Tersigni: "Usability of E-Learning Tools". In: Proceedings of the Working Conference on Advanced Visual Interfaces - AVI 2004, pp. 80-84

C6. C. Ardito, F. Costabile, M. De Marsico, R. Lanzilotti, S. Levialdi, P. Plantamura, V. Rossano, M. Tersigni: "Towards guidelines for usability of e-learning applications". In Christian Stary and Constantine Stephanidis (Eds), "*User-Centered Interaction Paradigms for Universal Access in*

*the Information Society*", 8th ERCIM Workshop "User Interfaces For All", Vienna, Austria, June 28-29, 2004, Springer-Verlag, Heidelberg, Germany, LNCS No: 3196/2004, pag. 185-202.

C7. M. De Marsico, S. Fratarcangeli, S. Levialdi, L. Lombardo: "CoOL-Room – Collaboration Oriented Learning Room". In: Proceedings of VL/HCC 2004, 20-th Symposium on Visual Languages and Human-Centric Computing, pp. 189-192. 27-29 September 2004

C8. M.F. Costabile, M. De Marsico, R. Lanzilotti, V.L. Plantamura, T. Roselli: "On the Usability Evaluation of E-Learning Applications". In Proceedings of Hawaii International Conference on System Science 2005, Vol. 1 (Abstract pag. 6)

C9. A. Bellucci, L. Cinque, M. De Marsico, S. Levialdi, A. Malizia S. Tanimoto: "Approaches to Multimodal Analysis Of Groups Of Students Learning Online". In Proceedings of International Workshop on Multimodal Multiparty Meeting Processing - ICMI-MMMP 05, pp. 59-62

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Roma, 27 Novembre 2021

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