RITA CUCCHIARA
CURRICULUM VITAE 2017

Rita Cucchiara is currently **full professor of "Computer Engineering and Science"** (ING-INF/05 «Sistemi di Elaborazione dell'Informazione») with the Dipartimento di Ingegneria "Enzo Ferrari" (DIEF) at the UNIMORE, Università di Modena e Reggio Emilia, Italy.

She is Director of the Interdipartimental Center of Research in Ict for Enterprise **Softech-ICT** (www.softech.unimore.it) of the modena Technopole in the Emilia Romagna Hhigh Technology Network .

She is Director of **Master** in "Visual Computing and Multimedia Technology" of UNIMORE. (www.mastermumet.unimore.it)

She helds the Research Lab **Imagleab** in Computer vision Pattern recognition and Multimedia within Dipartimento di Ingegneria "Enzo Ferrari".   (www.imagelab.ing.unimore.it)

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Education & Training Education

- Diploma Classical studies at Liceo Classico "San Carlo", Modena. Diploma in July 1983.
- Laurea magna cum laude in Electronic Engineering at University of Bologna in March 1989 .
- Habilitation degree for Italian Engineering Profession 1989.
- Ph.D. in Computer Engineering at University of Bologna in October 1992.

Teaching

Currently, in the a.a.2014-2015, she holds the courses of

- "**Computer architecture** (Calcolatori Elettronici e Lab)" 9 CFU for Computer Engineering ungraduated curriculum –Laurea Triennale- , for the Electronic Engineering curriculum and for Italian Military Academy,
- "Computer Vision (Visione artificiale)" 6 (6+3) CFU for Computer Engineering graduated curriculum –Laurea Magistrale-
- "Computer vision and video understanding" (2 CFU) for the Master in "Visual computer and Multimedia Technology" at UNIMORE.

Academic, Professional roles

- **Director of the Interdipartimental Center of Research in ICT SOFTECH-ICT** del Tecnopolo di Modena, at UNIMORE (co-founded by EU FESR'07-'13), 2012-.
- **Director of the graduate Master in "Visual Computing and Multimedia Technology"** 2015-
- **Deputy-Dean** for the Regional industrial Research in ASTER 2016-
- **President of the Italian Association in Pattern Recognition GIRPR** 2016-2017
- Member of the **Governing Board dell'International Association of Pattern Recognition IAPR**, 2012-.
- Member of the advisory Board of the **Computer Vision Foundation** 2015-
- Member of the **Board of Directors of Italian Institute of Tehcnology** (IIT) 2017-
- Vice-President of Italian GII (Gruppo di Ingegneria Informatica), Delgetao epr la Ricerca scientifica 2014-

In the past
- Vice-dean of Facoltà di Ingegneria UNIMORE in Modena, 2008-2012.
- Responsible of the PhD Doctorate courses in Computer Engineering (that is part of the Doctoral school in ICT of Modena) 2010-2012.
- Scientific Coordinator of "ICT and Design Platform" in the High Technology Network of Emilia Romagna, Italy 2010- 2016.
- Member of scientific committee in Fondazione Democenter Modena 2012-.
- Member of "Comitato dei Garanti", Comune di Modena 2010-2012.
- Member of the "Commissione per le Abilitazione Scientifica Nazionalein H/09" MIUR 2013-2014.
- Member of the Commission for Digital Agenda Emilia Romagna, Italy 2012-2016
  Others
- Responsible of the UNIMORE Unit in "osservatorio dei Media" Italy 2015-
- UNIMORE representative in ITS-Group Industrial EU group for security 2013-
- UNIMORE representative in the EU platform NEM New European Media 2011-

Research Activities

Since 1989 she works in **pattern recognitionand machine learning , computer vision and multimedia**.
Her current interests include
- computer vision , pattern recognition, machine learning and deep learning for video surveillance and human behavior understanding especially people detection and tracking, egocentric behavior in automotive
- multimedia image and video annotation, concept detection and summarization, media big data analysis for sport, cultural heritage and creative industries, video summarization and captioning;
- wearable sensors, ego-vision, sensing floors and IoT data processing for human-centred computing and interaction.

Rita Cucchiara works, supervises and coordinates several research projects at regional, national and international level. Most of them have a large part of industrial research in strict contact with industries.

Italian and International (competitive) projects. since 2005:
- Coordinator of a Research Unit in the " European Network of Excellence on Digital Library" DELOS EU VI FP 2005-2008,
- Coordinator of a Research unit in Italian PRIN (Progetti di Rilevante Interesse Nazionale) for skin lesion analysis 2005-2006;
- Scientific Coordinator of a Italy-France Galileo project for 2D and 3D search engines with Dr. Boujeema INRIA Paris 2008;
- Scientific coordinator of the Telematics Regional Project LAICA (Laboratorio di Ambient Intelligent per una citta' amica) with the Region Emilia Romagna 2007-2009
- Co- Coordinator with Prof. Piccardi of University of Technology of Sidney of a project of Surveillance funded by Australian Ministry LP0668325- "Automatic real-time detection of infiltrated objects for security of airports and train stations". 2006-2008
- Coordinator of a subcontracting unit in EU strep VIDIVIDEO coordinated by prof. Smeulders for surveillance video analytics and concept detection for search engines 2007-2010
- Scientific Coordinator of BESAFE a project funded by NATO Science for Peace, with Hebrew University in Israel 2008- 2012
- Scientific coordinator of a LEPIDA projects of Videosurveillance as as aService with IBM, Vitrocisiet and CSP 2012-2013;
- Scientific Coordinator of THIS an European JLS project in security, 2008-10,
- Scientific Coordinator of the research units in video analysis and videosurveillance for the ER FESR 2007-2013

- Coordinator of a Research Unit in the Italian PON project DICET-INMOPTU coordinated by Engineering spa 2013-2015
- Coordinator of a research Unit of the project "Animal Behaviour" Italian Minister of Health 2012-2015
- Scientific coordinator of the project "Educating City" Italian Technology Clusters in smart cities and communities 2014-2017
- Scientific Coordinator of VAEX Vision for Augmented experience Fondazione Cassa di risparmio di Modena 2014-2016
- Scientific coordinator of the UNIMORE Unit in " Sacher" RER FESR 2015-2017
- Scientific coordinator of the UNIMORE Unit in " JUMP" RER FESR 2015-2017
- Scientific coordinator of the FAR UNIMORE Project "Driver Attention" RER FESR 2015-2017
- Scientific Cooridnator of the Proposal winner of the Facebook Artificial Intelligence Research Lab 2016
- Scientific Cooridnator of the Project winner of the CINECA ISCRA Grants 2015 and 2016

National and International industrial projects with companies:

- Scientific coordinator of many research project with companies: among them Traficon (Belgium), Florim spa, Bridge 129, Franco Cosimo Panini, Treccani spa. Progetti di Impresa, Marchesini spa, and many others..

- Scientific tutorship of Industrial research project of ER "Technology district in ICT and Multimedia" coordinated by Fondazione Democenter

Patents and spinoff and International

Rita Cucchiara was co-funder of two spin-off

- Era scientific for 3D reconstruction in dental implants (http://www.dentalvox.eu/) from 1995-2000
- Vision-e srl for industrial computer vision www. http://www.vision-e.it/ from 2005-

She is co-authors of two patents

- C. Lucchese, R. Cucchiara, M. Lombardi, A. Pieracci, P. Santinelli, R. Vezzani . **"Substrate for a sensitive floor and method for displaying loads on the substrate"** Patent: WO 2014141166 A1.
- Giuseppe Monti, Andrea Prati, Rita Cucchiara, Paolo Piccinini **Feature-based segmentation method, for segmenting a plurality of loosely-arranged duplicate articles and a group for actuating the method for supplying a packaging machine** Patent number: 8467597

Scientific organization

- Scientific research exchanges co-organizer with University of Amsterdam NL, University of Sydney AU, University of Central Florida USA, University of San Diego USA, Panasonic
- International reviewer for many Conferences and Journals; EB of Machine Vision and Application, Elsevier; EB of Multimedia tools and application; EB of Transactions of Multimedia
- Guest editor of many special issues: among them "Wearable sensors for augmented experiences" IEEE Transaction of Human machine systems (formerly Transactions of Cybernetics) 2015
- Co-organization and member of PC of many conferences, symposia and workshops; Tutorial and workshop chairs of many conferences; among them
    - School n Machine Vision of IAPR-IC 2000.
    - Co-organizer of Workshop of VSSN05, VSSN06, MIFOR 2006, MIFOR 2007, WAEX 2015
    - Co-chair of the European School of Multimedia Digital Library 2006.
    - General chair of the 14th International Conference of Image Analysis and Processing, Modena 2007 and AIxIA (Associazione italiana x intelligenza artificiale) 2009
    - Area chair for ICPR (2012 Tokio), ACM Multimedia (2013, Barcelona), CVPR (2014, Columbus USA, 2016 Las Vegas).
    - Area Chair for ACM Multimedia 2017, NIPS 2017, CIBR 2017

- o Program chair of ICCV 2017, Venezia Italy
- o General chair of ICPR 2020, Milano, Italy

- Reviewer of International Research Projects (Research Council of Finland, Nederland Forensics Science, Austrian Research Council).
- Member of International Phd Schools commissions and exam commissions (France, UK , NL, Singapore, Spain, Australia)   and national too..
- Member of IAPR, AIxIA, IEEE, ACM: **Fellowship from IAPR in2006**.

 Rita Cucchiara is author and co-authors of more than 300 papers in international journals and proceeding of international conferences with referees; She has currently H-INDEX=40, citation 9500 (google scholar 2016)