



Rita Cucchiara Curriculum vitae 2018

📍 AlmageLab, Dipartimento di Ingegneria “Enzo Ferrari”

Università di Modena e Reggio Emilia, Italia

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🌐 www.Aimagelab.unimore.it

Sesso Femminile | Data di nascita 13/03/1965 | Nazionalità Italiana

EDUCATION

- Diploma Classical studies at Liceo Classico “San Carlo”, Modena. (July 1983).
- Laurea magna cum laude in Electronic Engineering at University of Bologna. (March 1989) .
- Ph.D. in Computer Engineering at University of Bologna. (October 1992).

PROFESSIONAL ROLES

- Research Assistant, K05A University of Ferrara (1993-1998)
- Associate Professor ING-INF/05 University of Modena and Reggio Emilia (1998-2004)
- Full Professor ING-INF/05 University of Modena and Reggio Emilia (2005-)

TEACHING APPOINTMENTS

- Computer Architecture (Ungraduate – L. Ing.Informatica, L. Ing. Inf. AEI)
- Computer Vision and Cognitive Systems (Graduate- LM. Ing. Informatica) in English
- AI for Automotive (Graduate- LM Advanced Electronic Eng. for Automotive) in English
IN THE PAST (1991-2017)
- At UNIMORE- Courses: Computer Architecture, Image Processing, Computer Vision; Video surveillance (Master in security, and cyber); Video understanding (Master in Multimedia Technologies in the Deep Learning Era);
- At UNIFE- Tutorship: Fundamentals of Computer science I, II , Digital Design, Artificial Intelligence ;
Course: Computer Systems (1992-1997)
- At UNIBO-Tutorship: Computer Systems (1989-1991)

ACCADEMIC APPOINTMENTS

- Dean Delegate of UNIMORE for the Regional Industrial Research and Delegate in ASTER (2016-)
- Dean Delegate in Regional Cluste-ER «Service Innovation» for value chain «Intelligent Systems» (2017-) and Dean Delegate in Regional Cluste-ER National Cluster TICHE –Technologies for cultural heritage (2018-)
- Director of the Inter-departmental Centre for Research in ICT Softech-ICT, UNIMORE, Modena’s Technopole, accredited in the High Technology Network of Emilia (2011-)
- Scientific Responsible of the Research Lab AlmageLab of DIEF, UNIMORE (2000-)
- Member of some Department «Enzo Ferrari» Boards («Spazi e Servizi», «Programmazioni ruoli»)
IN THE PAST
- Director of Master in “Visual Computing and Multimedia Technology” UNIMORE (2015, 2017)
- Deputy Dean of the Faculty of Engineering of Modena (2008-2012)

- Coordinator of the PhD CV in Computer Engineering and Science of the PhD School in ICT (2006-2009)

PROFESSIONAL/SCIENTIFIC ROLES

- Director of the Italian Lab in Artificial Intelligence and Intelligent systems of CINI (Consorzio Interuniversitario Nazionale per l'Informatica) (2018-2021)
- Member of the Advisory Board of the Computer Vision Foundation. (2015-)
- Member of the Governing Board International Association of Pattern Recognition IAPR. (2012-)
- Member of the Board of ACM Multimedia- Asia
- Member of the Board of Directors of Italian Institute of Technology IIT. (2017-2019)
- Member of Board of Direction (Giunta) of Gruppo Ingegneria Informatica (GII) II (2017-2020)
- UNIMORE representative in the EU platform NEM New European Media (2011-)
- AE IEEE Trans. On Multimedia; PC ICCV2017, LC IWCV2018; GC ICPR2020; GC ACM MM2020.

IN THE PAST

- President of Italian Association for Computer Vision, Pattern Recognition and Machine Learning CVPL (2016-2018)
- Vice-President of Italian GII delegate for Research (2014-2017)
- Expert Member of LEIT Horizon 2020 for Italian APRE (2015-2017)
- Scientific Coordinator of "ICT and Design Platform" in the High Technology Network of Emilia Romagna (2010- 15).
- Member of the "Commissione per le Abilitazione Scientifica Nazionale in H/09" MIUR (2013-2014)
- Member of the Commission for Digital Agenda Emilia Romagna, Italy (2012-2016)
- UNIMORE representative in ITS-Group Industrial EU group for security (2013-2016)

AWARDS AND GRANTS

LAST 3 YEARS

- 2015 Best Paper Award 7th Int. Conf. ITIE (with S.Alletto, D.Abati, G.Serra)
- 2015 Best Paper Award IEEE AVSS (with F..Solera,S.Calderara)
- 2016 Award: Proposal winner for Aimagelab (with L.Baraldi) , selectd as one of the 15 European lab partner of the Facebook Artificial Intelligence Research FAIR Lab
- 2017 Contest: Winner of the SALICON II Competition (with M.Cornia, L.Baraldi) at CVPR 2017
- 2018 Maria Petrou Prize IAPR (http://www.iapr.org/fellowsandawards/awards_petrou.php)

IN THE PAST

- 2006 Fellow at IAPR for "Contribute in Pattern recognition in Surveillance"
- ...
- 1991 award: best European project for Intel Multibus II architecture.
- 1989 award as best Laurea Thesis : from "Datalogic spa"

SCIENTIFIC INTERESTS AND ACTIVITIES

Since 1989 she works as research activity in **pattern analysis and machine intelligence**: from image processing to machine/deep learning, to AI, to computer vision and multimedia.

Since 2000 coordinates the Research Lab Aimagelab (www.aimagelab.unimore.it) that now accounts for 23 members at UNIMORE

Her current interests include:

- computer vision, pattern recognition, machine learning and deep learning theory, AI, for video surveillance and human behavior understanding, especially people detection and tracking, human behavior in automotive; automatic video captioning with saliency and attentive analysis;
- multimedia image and video annotation, concept detection and summarization, for cultural heritage,;
- wearable sensors, ego-vision, sensing floors and IoT data processing for HCI.
- machine and robot vision for industrial applications (collaborative robots and autonomous driving)

INTERNATIONAL PROJECTS: COORDINATION AND COLLABORATION WITH (ACTIVE in 2018*)

- Panasonic CA-USA and Japan, three years Project agreement and Phd exchange program for AI in Automotive
- DIVA Project (Kittware subcontr.) for video-surveillance research activity
- Facebook Artificial Intelligence Research : selected as 15 FAIR European Labs for Deep Learning for Video Analysis
- ISCRA Italian SuperComputing Resource Allocation – CINECA 2016,2017,2018
- EU Horizon 2020 CollRobot (vision for collaborative Robotics, unit coordinator M.Pellicciari)
- EU Horizon 2020 Prystine (Embedded vision for Automotive, unit coordinator M.Bertogna)
- For past projects see aimagelab.unimore.it

STUDENT EXCHANGE COLLABORATIONS WITH: (active)

- Duke University, (multiple people tracking), Eurecom Sofia Antipolis (emotion analysis),
- Amazon Berlin (Deep Learning and 3D); University of Amsterdam (Deep Learning in action analysis)
- Aalto university (saliency analysis); Center of Automotive Research Stanford Lab (3D),
- NTU Norway (reinforcement learning), Las Palmas (re-identification)
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NATIONAL PROJECTS: COORDINATION AND COLLABORATION WITH (ACTIVE in 2018)

- Jump, Sacher, (RER EU FESR 2015-2018)
- Dr-ivid Driver attention (UNIMORE FAR project with Stanford 2016-2018)
- AI for Digital Humanity (funded by Fondazione FCRMO 2018-2021)
- Cluster Smart City and Community « Città Educante» (Italian MIUR- Project 2016-18)
- CultMedia cluster Cultural Heritage TICHE MIUR (2018-2020)
- MIUR PRIN COSMOS Contactles Multibiometric mobile systems (resp RU S.Calderara 2017-19)
- IDHEA PON_PNR Project Cluster Cultural Heritage

NATIONAL INDUSTRIAL PROJECTS: COORDINATION AND COLLABORATION WITH (ACTIVE in 2018)

- **Ferrari spa and UNIMORE join lab REDVISION for AI and human-vehicle interaction**
- Many collaborations: Voilap, Sata, Baxter, Infolog, Ayxon, Metaliquid, Digital Design...
- In the past join Lab Florimage and other projects see aimagelab.unimore.it

SCIENTIFIC INDEX (google scholar may 2018)

H-index 45 ; Citation count 12144 ;i-10 index 172

max cited paper “Detectring moving objects ghosts and shadows in video streams IEEE T-PAMI 2003 1814 cit.

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