



Associazione  
Italiana per  
l'Intelligenza  
Artificiale

# Spotlight Seminars on AI

Spring 2022

## HUMAN BEHAVIOR UNDERSTANDING IN LARGE-SCALE VISUAL DATA

Rita Cucchiara - *University of Modena and Reggio Emilia*

 <https://www.youtube.com/c/AIxIAit>

*live streaming, Q&A, and replay*

May 30 - 5:00 PM (CEST)

Human behavior understanding in large-scale is the chimera of computer vision from at least two-decades. Despite stunning improvements by deep learning coupled with endless real and synthetic data, many research challenges are still open, e.g., regarding accuracy, multi-domain and multi-task adaptability. In addition, the time-to-market from research to product is squeezed by the requests of applications often suggesting the adoption of empirical or low-grounded solutions. It is time to re-think the connection between model-based vision and purely data-driven approaches for new generations of multi-tasking and multimodal solutions, which could be robust and explainable, sustainable, and privacy-aware together. The talk is a brief overview of the worldwide state-of-the-art of these topics with some example of recent research results at Aimagelab UNIMORE (University of Modena and Reggio Emilia).

**Rita Cucchiara** is an electrical and computer engineer, and professor of computer architecture and computer vision in the Enzo Ferrari Department of Engineering at the University of Modena and Reggio Emilia (UNIMORE) in Italy. Cucchiara's work focuses on artificial intelligence, specifically deep network technologies and computer vision to human behavior understanding (HBU). She is the director of the Almage Lab at UNIMORE and is director of the Artificial Intelligence Research and Innovation Center (AIRI) as well as the ELLIS (European Labs of Learning and Intelligent Systems) Unit at Modena. She was founder and director from 2018 to 2021 of the Italian National Lab of Artificial Intelligence and intelligent systems of CINI. Cucchiara was also president of the CVPL GIRPR the Italian Association of Computer Vision, Machine Learning and Pattern Recognition from 2016 to 2018.

