



Euro-CASE
Academies of Engineering Sciences

EVENT – ANNUAL CONFERENCE 2024

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Second Session 11:45 – 13:25

Sustainable healthcare management: technical needs and engineering solutions.

SESSION CHAIR: prof. Eugenio Guglielmelli

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INTRODUCTION: TOWARDS HEALTH&CARE 5.0

The future of Medicine as enabled by advanced technologies is more and more challenging: emerging scenarios of disruptive innovation can revolutionize healthcare. From Symptom-based\Intuition 1.0 Medicine, to Interaction-based\Measure 2.0 Medicine, and Pattern-based\Evidence 3.0 Medicine we are currently evolving to P4.0 Medicine: Personalized, Participatory, Predictive and Preventive Algorithm-based\Precision Medicine.

The wide variety of digital, communication and automation technologies will be integrated by Artificial Intelligence for developing intelligent systems for the future of Health&Care, not only for acute and post-acute therapies but also including new solutions for long-term care, healthy aging, wellness, quality and safety of our social and professional life. Intelligent systems must be more and more hybrid, not only to effectively integrated cognitive and physical intelligence, but also for appropriate and efficient human-technology interaction and co-operation.

As strongly promoted by the European Commission for the strategic configuration of the Horizon Europe 2021-2027 Framework Program, we do need to consider the perspective of Industry 5.0 to promote the most adequate innovations: a top-down approach for Human-Centric, Resilient and Sustainable solutions.

This is a stimulating scenario for developing solutions for better human-life and generating significant impacts on the key emerging needs, towards more and more human-centred and sustainable medicine also tackling OneHealth challenges: Health&Care5.0.