



DARE

SUMMER SCHOOL

Summer School 2024 Program

Co-design of digital preventive technologies

Day 1: Monday, July 29th

9.00-9.30

Opening
The Summer School Objectives
The meaning behind Spoke 1, Spoke 2 and Spoke 3

Lorenzo Chiari
Professor of Biomedical Engineering, Department of Electrical, Electronic, and Information Engineering, University of Bologna;
President, DARE Foundation - Digital Lifelong Prevention



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DARE
DIGITAL LIFELONG PREVENTION

9.30-10.00	<p>Why should we care about prevention and why we need technology for it</p> <p>Stefania Boccia Professor Section of Hygiene, University Department of Health Sciences and Public Health, Faculty of Medicine, University Cattolica del Sacro Cuore</p>
10.00-10.30	<p>Enabling factors and technologies for digital prevention</p> <p>Marco Viceconti Professor of Industrial Bioengineering, Department of Industrial Engineering, University of Bologna</p>
10.30-11.00	Break
11.00-11.30	<p>Primary Prevention: needs and challenges</p> <p>Walter Mazzucco Professor of Hygiene and Preventive Medicine, Department of Health Promotion, Maternal and Infant Care, Internal Medicine and Medical Specialties, University of Palermo</p>
11.30-12.00	<p>Secondary prevention: needs and challenges</p> <p>Massimo Federici Professor in Internal Medicine, University of Rome Tor Vergata</p>
12.00-12.30	<p>Legal and ethical challenges of processing sensitive data for research</p> <p>Marco Liotta Lawyer, PhD Student in Private Law, Department of Legal Sciences, University of Bologna</p>

	Ethical considerations Elisabetta Poluzzi Professor of Pharmacology, Department of Medical and Surgical Sciences, University of Bologna
12.30-14.00	Break
14.00-16.00	Workshop: unmet needs Collection of the pilot projects represented by the participants Challenges connected to Tasks or pilot projects

Day 2: Tuesday, July 30th

9.00-9.30	About Summer School DARE 2024 participants: who are they and where are they from? Serena Moscato Junior Assistant Professor, Department of Electrical, Electronic, and Information Engineering, University of Bologna
9.30-10.00	Regulatory pathways for in silico methodologies Cristina Curreli Biomedical Engineer, Researcher at Medical Technology Laboratory, IRCCS Istituto Ortopedico Rizzoli, Bologna
10.00-10.30	Data Management for primary and secondary use of clinical data Sabato Mellone Senior Assistant Professor, Department of Electrical, Electronic, and Information Engineering, University of Bologna



10.30-11.00	Break
11.00-11.30	Data-driven approaches in healthcare: challenges and emergent trends Antonella Carbonaro Professor at Department of Computer Science and Engineering, University of Bologna
11.30-12.00	Deploying machine learning models in production Filippo Lanubile Professor of Computer Science, Department of Informatics, University of Bari
12.00-12.30	Clinical translation of technologies. Caveats Alessandro Chiarini Technical Project Manager Life Science, BI-REX
12.30-14.00	Break
14.00-16.00	Hackathon "Co-design of digital preventive technologies" <ul style="list-style-type: none"> • Presentation of own objectives and activities in DARE; • Based on the Summer School lectures, identification of potential cross-links or methods that could apply to own Task/pilot project; • Based on the identified unmet needs and the identified methods, preparation of questions to present to the Board on July 31st; • Preparation of the Pitch by the participants (max 5 min. each).

Day 3: Wednesday, July 31th

9.00-9.20	Personalized calculators for primary prevention Antonello Lorenzini Professor, Department of Biomedical and Neuromotor Sciences, University of Bologna
9.20-9.50	Radiomics in Cardiovascular and Neurological Disorders Francesco Garaci Full Professor of Radiology, University of Rome Tor Vergata Eliseo Picchi Junior Assistant Professor at Department of System Medicine, University of Rome Tor Vergata
9.50-10.10	Digital tools for Public Health and primary prevention Claudio Costantino Professor of Hygiene and Preventive Medicine, Department of Health Promotion, Maternal and Infant Care, Internal Medicine and Medical Specialties, University of Palermo
10:10-10.30	Lifestyle surveillance system based on digital technology Garden Tabacchi Researcher at the Department of Psychological, Pedagogical, Exercise and Training Sciences, University of Palermo
10.20-11.00	Break



11.00-11.30	<p>Medical imaging and prosthesis design for personalized implants in Orthopaedic surgery</p> <p>Alberto Leardini Head of the Research Line of Computer Aided Medicine, now Innovative and Prosthetic Surgery, IRCCS Istituto Ortopedico Rizzoli, Bologna</p>
11.30-12.00	<p>From biological specimens to digital data: the role of biobanks in the era of big data and AI</p> <p>Mattia Veronese Professor of Bioengineering, Department of Information Engineering, University of Padova</p>
12.00-12.30	<p>Pathomics: ML-based approaches to identify novel pathologic features in cancer</p> <p>Paolo Boffetta Professor at Department of Medical and Surgical Sciences, University of Bologna</p>
12.30-14.00	Break
14.00-15.00	Pitch session by the participants
15.00-16.00	Plenary discussion about the Pitch session – Summer School Board

This program was made possible thanks to:

the Scientific Committee: Lorenzo Chiari (Chair), Marco Viceconti, Walter Mazzucco, Massimo Federici, Angela Montanari, Francesco Garaci, Sabato Mellone;

the Organisational Staff: Sara De Silvestri, Sabato Mellone, Serena Moscato, Luca Palmerini, Giada Trisolini.

