



MED 2021

29th Mediterranean Conference on Control and Automation

JUNE 22 – 25 2021, BARI, ITALY, <http://med2021.poliba.it>

Online Workshop

Toward Industry 5.0

Sustainable and Regenerative Economy with Focus on Smart Small Towns

JUNE 22, 2021

09:00 am – 1:20 pm

REFERENCE TIME ZONE: CENTRAL EUROPEAN SUMMER TIME (CEST)

00:00 am – 4:20 am **Los Angeles**, USA West Coast (PDT)

3:00 am - 7:20 am **New York**, USA East Coast (EDT)

8:00 am - 12:20 pm **London**, Central Europe (BST)

11:00 am – 3:20 pm **Dubai**, United Arab Emirates (GST)

3:00 pm – 7:20 pm **Beijing**, China (CST)

4:00 pm – 8:20 pm **Tokyo**, Japan (JST)

5:00 pm – 9:20 pm **Sydney**, Australia (AEST)

Mode of presentation

Online via Zoom

Organizers

Paolo Dario The BioRobotics Institute, Scuola Superiore Sant'Anna, Pisa, Italy

Barbara Bonciani Livorno Municipality, Italy, RETE (Association for the Collaboration of Ports and Cities), Associate Researcher, CNR-IRCrES

Rossella Raso The BioRobotics Institute, Scuola Superiore Sant'Anna, Pisa, Italy

REGISTER HERE TO THE WORKSHOP:

<https://controls.papercept.net/conferences/scripts/reglogin.pl?ConfID=293>

ACCESS HERE THE WORKSHOP SESSION:

<https://med2021.tsdigitalweb.it/>

W3 ROOM Gallipoli Tutorial and Workshop Session TuA03



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ABSTRACT

This Workshop is driven by the increasing worldwide attention for a sustainable economy in virtually all industrial sectors, and is inspired by the Conference venue, which is the Region of Puglia in Southern Italy.

The major cities (provinces) in Puglia count less than 320.000 inhabitants and, in addition, the limited extension of their territory makes them a representative example of “**Smart Small Towns**”, a definition that is somehow alternative to the concept of “Smart Cities”, but that reflects very well the status and the aspirations of a large fraction of populated areas worldwide. In fact, Europe barely counts 16 cities with more than 1 million inhabitants, whereas the “rural” areas and communities in Europe are home to more than half of the EU population. Actually, among the priorities given by the Cork Declaration 2.0, which sets out the expectations and aspirations of rural areas in Europe, there are actions for turning such rural villages into “Smart” Small Towns.

This Workshop aims at analysing the obstacles that citizens living in Small Towns cope with (logistic connections, digital impairment, services, safety, healthcare, assistance to elderly, culture, etc.), and at understanding if and how Robotics and Automation could help to deliver sustainable daily-life solutions to improve socio-economic welfare, well-being, and quality of life.

Novel technological solutions and economic paradigms will be considered during the presentations, with particular attention to those sectors which have been severely hit by the recent Covid-19 pandemic, such as health, tourism, agriculture, food and accommodation, etc., while dealing with the increasingly crucial issues of the digital transition and energy sustainability in the paradigm of “Industry 5.0” (which refers to total Sustainability, including Human Centric and Circular Economy, Regeneration and more. This concept has been illustrated in the recent report of the European Commission on Industry 5.0, entitled “Towards a sustainable, human-centric and resilient European industry”).

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WORKSHOP PROGRAM

Workshop Session: TuA03
W3 Room: Gallipoli
Chair: Paolo Dario
Co-Chair: Barbara Bonciani

Session	Duration	Time CEST	Name	Affiliation	Title
Welcome and Introduction	30 min	9:00 am – 09:30 am	Paolo Dario	Scuola Superiore Sant'Anna, Pisa, Italy	Setting the Stage. Introducing the Concept of Industry 5.0 and of Smart Small Towns
Session 1 Logistics 5.0: Technologies and Trends	30 min	9:30 am – 10:00 am	Paolo Pagano	Joint Laboratory CNIT (Italian Interuniversity Consortium for Telecommunications), Italy. Port System Authority of the Northern Tyrrhenian Sea, Livorno, Italy	Port of the Future: Innovating ICT Services in the 5G Era
Q&A Discussion	30 min	10:00 am – 10:30 am	Moderator: Barbara Bonciani	Speakers & Audience	
Session 2 Socio-Economic Issues in Port Cities Ecosystems	40 min	10:30 am – 11:10 am	Barbara Bonciani	City councillor for port and city-port integration of Livorno Municipality, Italy. RETE (Association for the Collaboration of Ports and Cities), Italy	The Impact of Ports Automation on Human Work-Force
	20 min per speaker		Massimo Clemente	CNR-IRISS (Research Institute for Developmental Innovation and Services), Naples, Italy. Director. RETE (Association for the Collaboration of Ports and Cities), Italy	Planning
Q&A Discussion	30 min	11:10 am – 11:40 am	Moderator: Paolo Dario	Speakers & Audience	
Session 3 Real-life Scenarios	40 min	11:40 am – 12:20 am	Debora Pereira and Gastone Ciuti	Scuola Superiore Sant'Anna, Pisa, Italy	Citizen-centered and sustainable robotics for smart small towns
	20 min per speaker		Michelle Johnson	University of Pennsylvania, Philadelphia, USA	Leveraging Robots and Automation to deliver Affordable Rehabilitation Care. (pre-recorded video)
Q&A Discussion	30 min	12:20 am – 12:50 am	Moderator: Paolo Dario, Barbara Bonciani	Speakers & Audience	
Conclusions	10 Min	12:50 am – 1:00 pm	Paolo Dario, Barbara Bonciani		
End of the Workshop		1:00 pm			