



# TOR VERGATA UNIVERSITY OF ROME

PhD Programme in Industrial Engineering https://phdindustrialengineering.uniroma2.it/

a.a. 2024-25

PhD Coordinator Prof. Gianluca Verona Rinati Office: +39 06 7259 7227 gianluca.verona.rinati@uniroma2.it



### PHD PROGRAMME IN INDUSTRIAL ENGINEERING VIALE

### DOCTORAL PROGRAMME

#### **General Presentation**

The PhD in Industrial Engineering of the Rome "Tor Vergata" University has made multidisciplinary approach and close relationships with national and international companies its distinctive character. The research topics present in the PhD program cover a wide range of applications, including but not limited to industrial design, new materials and technologies, energy and the environment, engineering applications for medicine and sports, sensors, robotics, diagnostics for cultural heritage and management. In the following pages, a brief summary of the research activities carried out in the framework of the programme is given.

#### **Main Objectives**

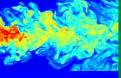
The main goal of the PhD programme is to train graduate students to become "problem solvers". In order to do so, academic and specialist courses are given, as well as seminars, schools and guided research activities. The duration of this whole set of training activities is 3 years. It is intended to provide the students with quite a few skills in their specific area of interest, such as: theoretical knowledge, experimental abilities, technological expertise, methods for calculus, modelling and simulation. The outcome of the process, is to form proactive professionals able to "tune" their skills with the increasingly complex demands from the market, in search of constant and challenging technological innovations.

#### **Professional Opportunities**

Beside the connection with Italian and international Universities and research Institutes, the PhD programme in Industrial Engineering is strongly related to and supported by public and private companies as well. They greatly appreciate the ability to deal with design, production and characterization in the field of technological applications. This is why quite often our PhD students find out career opportunities soon after their PhD final exam and the achievement of their Doctoral Degree.















#### PHD PROGRAMME IN INDUSTRIAL ENGINEERING

#### Multidisciplinary, International and Intersectoral

VIALE

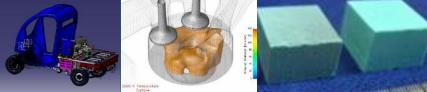
Meeting the needs of a changing labour market requires greater emphasis on the EU Triple-I recommendations on doctoral training: to be international, interdisciplinary and intersectoral. In order to fulfil such requirements, several research fields are covered by expertise of the members of both scientific and advisory panels of the PhD program. They belong to quite a few different scientific and disciplinary sectors, ranging from engineering to physics, involving chemistry, biology, medicine, management and law. In addition, carrying out study and research activities at external laboratories is strongly recommended in the PhD training program. Joint PhD paths with International Institutions, as well as Joint and Double PhD, Exchange and Erasmus+ programmes are supported by the "Tor Vergata" University PhD School. More specifically, well assessed cooperation and/or formal agreements are active between the PhD Programme in "Industrial Engineering" and the following Universities, Research Institutions and private companies (see below):

#### Partner Universities and Research Institutions

CNRS – Université de Poitiers (France) ENEA-BOLOGNA (Italy) ENEA-CASACCIA (Italy) ENEA-FRASCATI (Italy) INFN (Italy) Institut National des Sciences Appliquées (France) Universidad de Málaga (Spain) Max Plank Institute (Germany) National Institute of Materials Science (Japan) National Research Council (Italy) National Research Council (Russian Federation) Politehnica University Timişoara (Romania) S. Mary's University (Canada) Technische Hochschule Wildau (Germany) Tokyo Institute of Technology (Japan) Universidade Fernando Pessoa (Portugal) Universita' Aix Marseille (France) Universitatea "Dunărea de Jos" din Galați (Romania) Université de Montpellier (France) Universitý Of Applied Sciences Hes-So (Switzerland) University of Applied Sciences of Yeverdon (Switzerland) University Of Twente (Netherlands) Wroclaw University of Science and Technology (Poland) Oklahoma State University (USA)

#### **Private Companies Supporting the Programme**

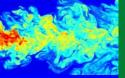
CAPTIKS Srl IVECO SpA Probablin & Tefarm Srl Polo Rosso Srl Ansaldo Nucleare SpA SER TEC Srl FIS & DM Srl CALEF Consortium THPC Srl Vitrociset SpA CBRN GmbH Taal Srl Promedica Bioelectronics Srl ENPROJECT MEDICALI Srl DIESSE DIAGNOSTICS SENESE SpA TECNOGYM SpA Walter Tosto SpA OCEM Srl SENSORMEDICA DELTA Biologicals IMC Srl











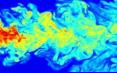


## PHD PROGRAMME IN INDUSTRIAL ENGINEERING VIALE

### PHD SCIENTIFIC PANEL **MEMBERS FROM ITALIAN UNIVERSITIES**













FIGA' TALAMANCA NARDUCCI NASTASI PAOLONI PIERI PIZZOFERRATO PROSPOSITO

**VERONA RINATI** 

Gianluca (Coordinator) Lorenzo Sergio Stefano Vincenzo Domenico Marco Mauro Sandra Stefano Girolamo Maria Luisa Giovanni Marco Pasqualino Michela Antonio Andrea Michele Marco Stefano Fulvio Marilena Roberto Vincenzo Riccardo Benedetto Stefano Massimo Roberto Paolo

QUADRINI **RICHETTA** ROMANELLI RUSSO SANTO TATA VARONE VELLINI VERONA ZAMMIT

Fabrizio Maria Francesco Matteo Loredana Maria Elisa Alessandra Michela Claudio Ugo





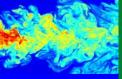


### PHD PROGRAMME IN INDUSTRIAL ENGINEERING VIALE

### PHD SCIENTIFIC PANEL MEMBERS FROM RESEARCH INSTITUTIONS AND UNIVERSITIES OF OTHER COUNTRIES

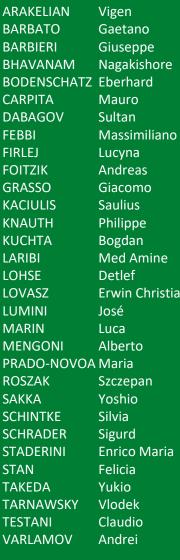












Institut National des Sciences Appliquées (France) Promedica Bioelectronics Srl (Italy) **ENEA-CASACCIA** (Italy) Acharya Nagarjuna University Guntur (India) Max Plank Institute (Germany) University of Applied Sciences of Yeverdon (Switzerland) **INFN** (Italy) Sensormedica (Italy) Université de Montpellier (France) Technische Hochschule Wildau (Germany) **ENEA-BOLOGNA** (Italy) National Research Council (Italy) Universita' Aix Marseille (France) Universita' Aix Marseille (France) CNRS – Université de Poitiers (France) University Of Twente (Netherlands) Erwin Christian Politehnica University Timişoara (Romania) Universidade Fernando Pessoa (Portugal) Sensormedica (Italy) **ENEA-BOLOGNA** (Italy) Universidad de Málaga (Spain) Wroclaw University of Science and Technology (Poland) National Institute Of Materials Science (Japan) University Of Applied Sciences Hes-So (Switzerland) Technische Hochschule Wildau (Germany) University Of Applied Sciences Hes-So (Switzerland) Universitatea "Dunărea de Jos" din Galați (Romania) Tokyo Institute of Technology (Japan) S. Mary's University (Canada) CALEF Consortium (Italy) National Research Council (Russian Federation)



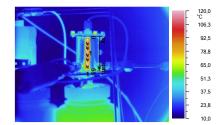




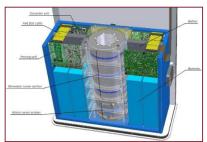
## **Energy Systems**

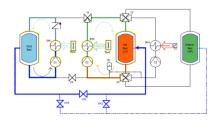
## **Research Topics**

- Energy storage
  - Hydrogen storage
  - Electric Energy Storage Systems
  - Thermal Energy Storage
- Hydrogen-Based Energy Systems for Portable Equipment and Mobile Applications
- Energy Harvesting
- HVAC Systems for Electric Vehicles
- Waste Heat Recovery and Management
  - Advanced materials for water vapor adsorption











### Contact

Prof. Michele Manno Tel. +39 06 7259 7215 <u>michele.manno@uniroma2.it</u>



PHD PROGRAMME IN INDUSTRIAL ENGINEERING

End user

Multi Energy System

## Sustainable and Clean Energy Research Group Research Topics

- Multi-Source Energy Systems for generation from renewables at highpenetration scenarios
- Hybrid/Electric vehicles and fleet optimal control strategies for the development of Sustainable Mobility
- Development of small size biomass power systems based on pyrolysis and anaerobic digestion processes
- Design of sustainable ultra-lean biomethane/biodiesel dual fueled internal combustion engines
- Implementation of resilient energy solutions for developing countries – rural and urban case studies

### Contacts



Prof. Stefano Cordiner Tel. +39 06 7259 7173 Mobile +39 320 4394 390 cordiner@uniroma2.it

Dr. Lorenzo Bartolucci Tel. +39 06 7259 7176 Mobile +39 339 8778 945 Iorenzo.bartolucci@uniroma2.it



Prof. Vincenzo Mulone Tel. +39 06 7259 7170 Mobile +39 320 4394 411 mulone@uniroma2.it

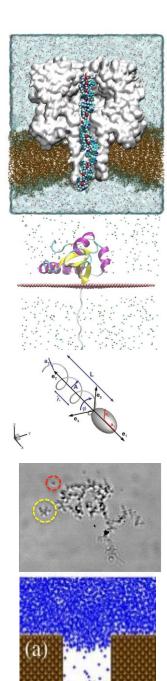




## **Micro and Nanofluidics**

## **Research Topics**

- Nanopore based single molecule sensors
- Nanofluidic devices for protein sequencing
- Electroosmosis
- Microswimmers
- Wetting on superhydrophobic surfaces
  - Water slippage





Contact

Prof. Mauro Chinappi Mobile +39 328 7468581 mauro.chinappi@uniroma2.it



## Robot Mechanics and Design of Service Robots Research Topics

- Analysis of robot manipulation
- Kinematics and dynamics of robots
- Design of mechanisms for robots
- Design of service robots
- Design of medical devices
- Grasping, grippers and hands
- Experimental testing of robots
- Locomotion and legged mobile robots
- Parallel manipulators
- Exoskeleton mechanisms
- Design of humanoid robots
- History of mechanisms and machines

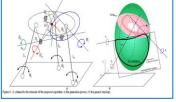


#### **Contacts:**

Prof. Marco Ceccarelli Tel. Mobile +39 333 4479314 marco.ceccarelli@uniroma2.it

> Prof. Matteo Russo matteo.russo@uniroma2.it













## Technologies and Manufacturing Systems Research Topics

- Smart materials and structures
- Materials in space environment
- Space sustainability
- Non-conventional processes and machining
- Additive manufacturing
- Polymer processing
- Manufacturing process simulation
- Metal and polymer foams
- Material characterization
- Material recycling technologies and circular economy
- Aesthetic technologies



Contacts

Loredana Santo, PhD Tel. +39 06 7259 7165 Mobile +39 320 4394 382 <u>loredana.santo@uniroma2.it</u>



Fabrizio Quadrini, PhD Tel. +39 06 7259 7167 Mobile +39 320 4394 383 fabrizio.quadrini@uniroma2.it



## **IONOMER MATERIALS FOR ENERGY (LIME)**

### **Research Topics**

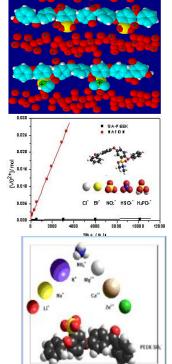
- Synthesis of ionomers
  - Post-polymerization modification
  - Direct copolymerization
  - Organic/inorganic nano-hybrids
- Ion exchange membranes for fuel cells
  - Proton exchange membranes
  - Anion exchange membranes
- Amphoteric ionomers
  - Stimuli-responsive polymers
- Thin film separators for Li microbatteries
  - Electrochemical deposition
- Solid electrolyte for redox flow batteries
- Inorganic solid electrolytes
  - Layered double hydroxides
  - Graphene quantum dots

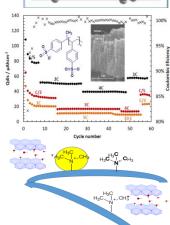
Synthesis, characterization, and application of solid state ionic materials from the microscale to the macroscale



#### Contact

Prof. Maria Luisa Di Vona Tel. +39 06 7259 7184 Mobile +39 320 7983 063 <u>divona@uniroma2.it</u>







# New Materials for Optoelectronics (NeMO)

### Webpage: webnemo.uniroma2.it

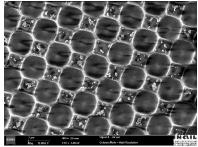
## **Research Topics**

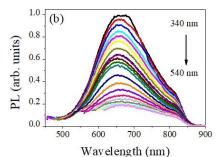
- Water filtration and optical sensing of heavy metal ions
- Photocatalityc degradation of organic pollutants through metal oxides
- Ag and Au Nanoparticles and Nanoclusters
- Silicon Photonics for ICT and Quantum Technologies
- Silicon Photonic Bio-Sensors

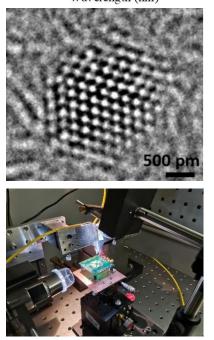
#### Contacts

Prof. Paolo Prosposito Tel. +39 0672594115/4779 paolo.prosposito@uniroma2.it

Prof. Fabio De Matteis Tel. +39 0672594521 <u>fabio.dematteis@roma2.infn.it</u>











## **Metallurgy and Materials Science**

## **Research Topics**

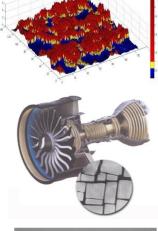
- Metallic alloys for high temperature applications
  - Ni base superalloys and ODS steels
- Materials for applications in future nuclear fusion reactors
- Stainless steels
- Laser and electron beam welding
- Metal Matrix Composites
- Biocompatible alloys (Mg and Co alloys)
- Metal foams
- Metal hydrides for hydrogen storage
- Additive manufacturing
- Bulk and surface materials characterization :
  - X-ray diffraction, Electron Microscopy, Microchemical analysis EDS, XPS and AES, Instrumented Indentation, Mechanical Spectroscopy

### Contacts

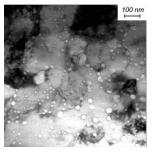
Prof. Roberto Montanari Tel. +39 06 7259 7182 roberto.montanari@uniroma2.it



Prof. Alessandra Varone Tel. +39 06 7259 7180 <u>alessandra.varone @uniroma2.it</u>









## Metallurgy

## **Research Topics**

- Production and characterization of metal foams (Al, Pb, Fe)
- SMA (NiTi) for actuators and/or sensors (Solar sails)
- Innovative Materials (composites)
- Conventional and Unconventional weldings
- Honeycomb and AFS panels





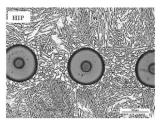
#### Contacts

Prof. Maria Elisa Tata Tel. +39 72587169 <u>Elisa.tata@uniroma2.it</u>

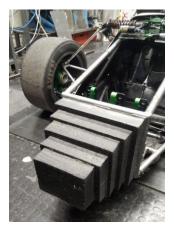
Prof. Girolamo Costanza Tel.+390672597185 <u>costanza@ing.uniroma2.it</u>













## **Design and Materials**

## **Research Topics**

- Advanced design for additive manufacturing of smart, sustainable and high-performance products
- Bioinspired/biomimetic design of additive manufactured devices for industrial and biomedical applications
- 3D solid, cellular, lattice or solid-lattice hybrid structures
- Computer Aided Design (CAD), Modeling &
   Simulation, Mechanical & Thermal Measurements
- Tailoring of mass transport and mechanical properties of additive manufactured structures
- Hybrid design & nanomaterials synthesis
- Optimality criteria methods & generative design
- Layered Double Hydroxides synthesis, characterization, morphological analysis, growth mechanism investigation
- Materials of interest for fusion reactors (tungsten, ferritic steels)



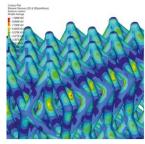
Prof. Maria Richetta Tel. +39 72597197 richetta@uniroma2.it



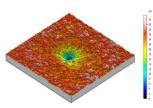
Prof. Antonio Gloria Tel. +39 0817682452 <u>antonio.gloria@unina.it</u>









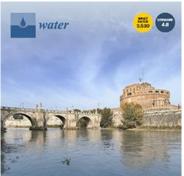




# Optical Sensing and Nanomaterials

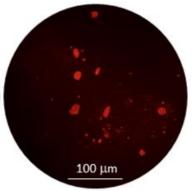
## **Research Topics**

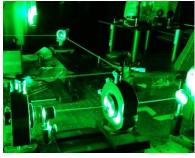
- Detection of Microplastics in water through optical methods
- Carbon Nanomaterials for detection of Heavy Metals
- Functionalized Carbon Quantum Dots
- Water remediation through Layered Double Hydroxides
- New Lock-In techniques for revelation of optical signals



A New Optical Method for Quantitative Detection of Microplastics in Water Volume 24 - June 20 October 00 2022

MDPI matrices.[surral/wate







#### Contacts

Prof. Roberto Pizzoferrato Tel. +39 0672597192 pizzoferrato@uniroma2.it

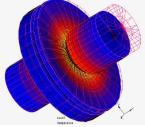


#### PHD PROGRAMME IN INDUSTRIAL ENGINEERING

# Modelling and Design of Materials and Processes

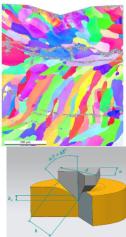
## **Research Topics**

- Materials and Process Multiphysics: experimental and modelling of manufactor processes.
- Solid state capacitor discharge welding (SSCDW) of similar and dissimilar materials for automotive and aerospace applications
- Laser additive manufacturing of high added value products (for luxury and made in Italy industrial sectors)
- Laser metallurgical/product repair of manufacturing tools and aerospace parts
- Mechanical (nano, micro, macro) characterization of metals and alloys by means of instrumented indentation, test to enhance materials research and industrial manufacturing (experimental and modelling)











### Contact

Prof. Giovanni Maizza Tel. +39 011 090 4632 <u>maizza@polito.it</u>

Mobile +39 3398689987



## **Synthetic Diamond Devices**

## **Research Topics**

- Single crystal diamond growth
- Transport properties of semiconductors
- Time-resolved Laser-induced Fluorescence
- Diamond based device fabrication
  - Radiation therapy dosimeters
  - Hadron-therapy micro-dosimeters
  - FLASH radiotherapy dosimetry
  - Field effect transistors for highfrequency/high-power application
  - Neutron detectors
  - UV, V-UV, E-UV, Soft-X ray detectors
  - Detectors for femtosecond laser application
  - Laser-generated plasma diagnostics
- Diagnostics for cultural heritage applications



#### Contacts

Prof. Gianluca Verona Rinati Tel. +39 06 7259 7227 gianluca.verona.rinati@uniroma2.it

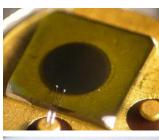


Prof. Marco Marinelli Tel. +39 06 7259 7229 <u>marco.marinelli@uniroma2.it</u>

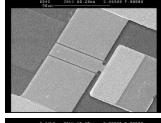
Nearly as good as water

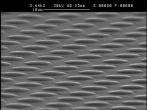


Synthetic Diamond Detector for High-Precision Dosimetry











# **Photothermal analysis**

## **Research Topics**

### Cultural heritage

- Bronzes, paintings, historical books: structure and composition
  - IR Thermography and Reflectography
  - Spectroscopy and colorimetric studies
  - Alloys and cast analysis
- Parchment deterioration: optothermal study
  - Hydrothermal denaturation method

### Liquid crystals

- Phase transitions, Optical and thermal properties
  - Photopyroelectric calorimetry
    - **Texture analysis**

### **Contact**

Prof. Fulvio Mercuri Mobile +39 320 4394381 mercuri@uniroma2.it

Prof. Ugo Zammit Mobile +39 320 4394386 zammit@uniroma2.it



Prof. Stefano Paoloni Phone +39 0672597194 stefano.paoloni@uniroma2.it















# Quantum Electronic and Plasma Physics

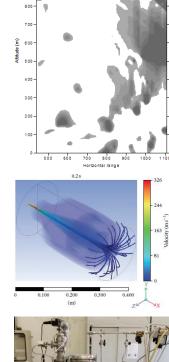
## **Research Topics**

- Laser diagnostics for Environmental Monitoring and Fusion Energy
  - Develop of Laser based on Lidar and Dial technologies
  - Pollutants monitoring
  - Chemical aggressive gas identification
  - Fire detection
  - Pollutants detection
  - Measurement of plasma electron density and its characterization
- Nuclear Fusion
  - Safety and Security STARDUST U project;
  - Big data analysis and data mining
- Numerical simulation of physical phenomena
- CBRNe detection and identification



### Contact

Prof. Pasquale Gaudio Tel. +39 06 72597209 Mobile +39 3204257014 gaudio@ing.uniroma2.it; www.qepresearch.it









## **Fusion Energy**

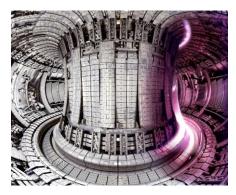
## **Research Topics**

- Fusion reactor physics
  - Models of plasma transport in fusion experiments
  - Models of plasma off-normal events
  - Alpha particle collective effects
- Diagnostics for fusion reactors
  - Design of diagnostics in nuclear environment;
  - Qualification test for ITER diagnostic components
- System codes for fusion reactor design
- System studies on the integration of different energy technologies in the electric system



#### Contact

Prof. Francesco Romanelli Mobile +39 33560925414 <u>Francesco.romanelli@.uniroma2.it;</u>



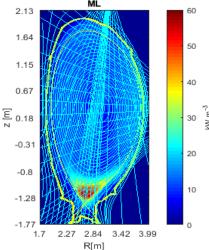


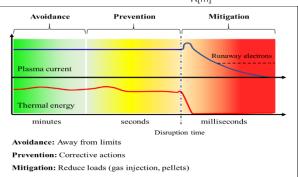
## **Diagnostics for Fusion Reactors**

### **Research Topics**

- Measurements for identification and control of thermonuclear plasmas
- Tomography and other ill-posed inversion problems
- Anomaly detection for the prevention of accidents
- Advanced analysis methods for physics modelling, data mining and data driven theory
- Scaling of engineering parameters for the design of new power plants









Contact

Dr. Michela Gelfusa Tel. +39 0672597210 gelfusa@ing.uniroma2.it



## **Power Electronics and Drives**

## **Research Topics**

- Power Supplies for Nuclear Fusion Reactors
- Multi-port Multi-level Converters
- Solid-State Transformers
- e-Mobility charging stations (G2V-V2G)
- Supercapacitor-based Power Supplies
- Electric Drives
- Interfacing Distributed Generation
   Systems to the (Smart) grid
- Model-based control design
- Hardware-in-the-loop real-time simulation







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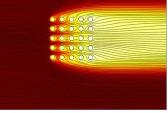
Prof. Stefano Bifaretti Tel. +39 06 7259 7364 <u>stefano.bifaretti@uniroma2.it</u>

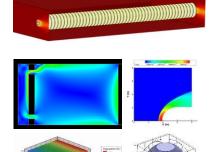


## Thermodynamics and Heat Transfer Research Topics

- Theoretical models for the evaluation of thermophysical properties of porous media,
  - composite material...
    Experimental investigation of thermophysical properties of porous media, liquids, composite material, foods, nanofluids with thermal probe method, dual probe method, flash method...
  - Heat transfer and thermo-fluid dynamics in terrestrial and extraterrestrial soils
  - Thermo-fluid dynamics of buildings
  - Free convection in porous materials
  - Thermo-fluid dynamics: passive and active techniques to enhance convective heat transfer









#### Contact

Prof. Sandra Corasaniti Tel. +39 06 7259 7130 Mobile +39 3389607878 sandra.corasaniti@uniroma2.it



# **Emerging Technologies in Laboratory Medicine**

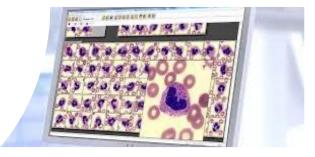
## **Research Topics**

- Total Clinical Laboratory Automation
- Machine Learning Applications in Laboratory Medicine
- Digital Morphology
- Mass Spectrometry and NMR diagnostics
- Biosensors Diagnostics
  - Emerging Technologies in Sport Sciences





Contacts





Prof. Sergio Bernardini Tel. +39 06 2090 2262 <u>bernardini@med.uniroma2.it</u>



Prof. Marilena Minieri Tel. +39 06 2090 2365 <u>minieri@med.uniroma2.it</u>

#### PHD PROGRAMME IN INDUSTRIAL ENGINEERING

# **Research Topics**

#### **Decarbonized Power Generation Solutions:**

- Innovative Polygeneration Solutions & Optimization Strategies
- CCS & CCU for exhaust gas treatment & Decarbonized Processes;
- Oxy-Combustion for Low-Emission Power Generation;
- CO2 Certification, Validation and Trade

**Energy Conversion** 

- Integration of Renewables Energy Resources;
- Biomass & Biogas based power systems
- Concentrated Solar Power (CSP) equipped with advanced temperature thermal energy storage

#### Power plant monitoring and diagnostic

Advanced modelling techniques for real-time power plant control, monitoring and optimal operations based on forecasting approaches.

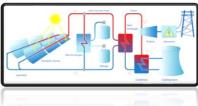
#### Solutions for cleaner generation, storage and mobility

- Innovative Storage Solutions: Metal Hydride & Liquid Organic Hydrogen Carriers (LOHC)
- Fuel Diversification: E-fuels (e-methane, e-kerosene, e-methanol) produced by RES and Decarbonized Electricity

#### **Contact**

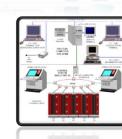
Prof. Marco Gambini Prof.ssa Michela Vellini Tel. +39 06 72597214 Tel. +39 06 72597203 gambini@ing.uniroma2.it vellini@ing.uniroma2.it

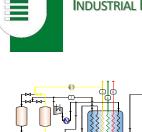
Dr. Stefano Mazzoni Tel. +39 06 72597215 stefano.mazzoni@uniroma2.it













# Smart Energy Systems for the Built Environment

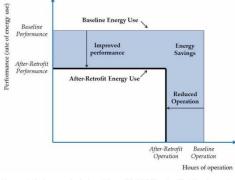
## **Research Topics**

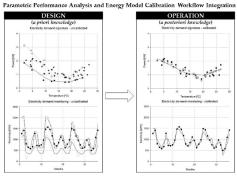
- Smart Energy Systems Planning
  - From National to District scale
  - Renewable Energy Communities
- Open Data & Energy Analytics
  - Interpretable Data-driven Models
  - Energy Flexibility Enablers
- Sustainable Buildings
  - Rational Use of Energy
  - Energy Efficiency
- Electro-fuels in Energy Transition
  - Hydrogen and Low Carbon options
- Hybrid solutions for HVAC
  - Heat Pumps for HT, MT, LT users



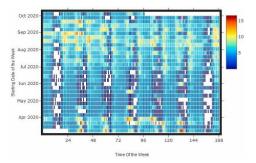
#### Contact

Prof. Benedetto Nastasi Tel. +39 06 7259 7200 <u>benedetto.nastasi@uniroma2.it</u>









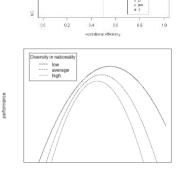


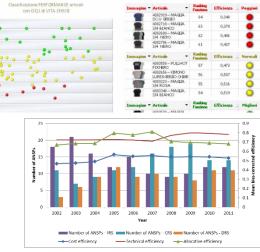
## **Management Engineering**

## **Research Topics**

- Demand Forecasting and Distribution Optimization in retail
- Big Data and Data mining
- Multicultural diversity and performance of organizations
- Efficiency, productivity and economic growth
- Efficiency analysis in Hospitals
- Air transport
- Energy efficiency







Dept. Industrial Engineering "Tor Vergata" University Rome - Italy



#### Contact

Prof. Domenico Campisi Tel.: +39 06 72597357 domenico.campisi@uniroma2.it





## **Corporation and Competition Law**

## **Research Topics**

- Commercial Law
- Company and Corporation Law
- Competition and Antitrust Law
- Intellectual property Law



#### Contact

Prof. Giovanni Figà-Talamanca Tel. +39 3483383233 gft@uniroma2.it

# How to reach us

### 🛪 BY AIRPLANE

#### FROM "LEONARDO DA VINCI INTERNATIONAL AIRPORT"

No stop service "Leonardo Express Fiumicino Aeroporto – Roma Termini" (please check the section "By Train" from here to the University).

or

#### FROM "CIAMPINO AIRPORT"

Take COTRAL and ATAC bus services to reach the Subway A line Anagnina station (please check the section "by Public Transport" from here to the University).

### **BY TRAIN**

#### From Roma Termini Station:

Take the Subway A line to Anagnina station (please check the section "by public transport" from here to the University).

#### **BY PUBLIC TRANSPORT**

**From Subway A line Anagnina station to Rectorate and Campus**: 20 Express Bus







# PhD Office

Via Cracovia 50 - 00133 Roma Rectorate, Building H, Room 8 Opening Hours: Monday, Wednesday and Friday, from 10:00 to 13:00

#### Director

**Dr. Giovanni La Rosa** Tel.: +39 06 72592582 e-mail: giovanni.larosa@uniroma2.it Web: http://dottorati.uniroma2.it

#### Collaborators

**Lorena Gerosi** Certificates, Fellowships, Front Office Tel. : +39 06 72592564 e-mail: lorena.gerosi@uniroma2.it

#### Serena Sposato

Foreign students, Announcements, Front Office Tel. : +39 06 72594128 e-mail: serena.sposato@uniroma2.it

