Supervisor Project Idea

Supervisors

Prof. Marco Cucculelli (PhD) - Professor in Applied Economics (https://orcid.org/0000-0003-0035-9454, Scopus: 56 papers, 1627 citations, h-index 20). Coordinator of the PhD in Economics at Univpm; Secretary General of the Italian Economic Association; Fulbright Distinguished Chair at the University of Pittsburgh (USA).

Prof. Gabriele Comodi, PhD, Full Professor in **Systems for energy and the environment**
- ➤ https://orcid.org/0000-0003-4606-5283, Scopus: 144 papers, 3,341 cit. , h-index 34 (Energy; Environment Sc.; Engineering; Computer Sc.)
- ➤ **Top 2% Most Influential** Scientists - Stanford University – Elsevier
- ➤ **Department of Industrial Engineering and Mathematical Sciences UNIVPM**

Marco Cucculelli works in the fields of innovation, technology, corporate finance and entrepreneurship. He is an Associate Editor in several international journals (JSBM Associate Editor of the Year in 2014) and has chaired several ICSB World Conferences. He is the coordinator of the Annual Conference of the Italian Economic Association. He is in the Top 2% Scientists ranking by Stanford University - Elsevier.

He participated as principal investigator to EU-funded projects and worked for the Italian Ministry of University. He is a founding member of the Industry Studies Association (USA) and the Asian Entrepreneurship Association. He was Director at-large at the International Council for Small Business, Washington, D.C. (USA).

1. Linying Li; Raza, M.Yousaf; Cucculelli, Marco (2024). Electricity generation and CO2 emissions in China using index decomposition and decoupling approach, Energy Strategy Reviews, Volume 51
2. Raza, M.Y., Cucculelli, M. Sustainable energy changeover in Pakistan: prospects, progress, and policies, (2024). Environmental Science and Pollution Research 31
3. Bahoo S. Cucculelli M. (2023). Artificial intelligence and corporate innovation. A review and research agenda. Technological Forecasting & Social Science, Volume 188
4. Lena D. Pasurka C. Cucculelli M. (2022), Environmental regulation and green productivity growth. Evidence from Italian manufacturing firms. Technological Forecasting & Social Science, 4
5. Cucculelli M. Peruzzi V. (2020). Innovation over the industry life cycle. Does ownership matter? Research Policy, Volume 49, Issue 1

Recent European fundings:
- **eNeuron -** Energy Islands and Local Energy Communities - H2020
- **MUSE GRIDS -** Energy Islands and Local Energy Communities – H2020
- **INTERRFACE -** TSO-DSO-Consumer INTERFACE aRchitecture to provide innovative grid services for an efficient power system – H2020
- **TaskforCome –** Interreg Central Europe - To improve skills and entrepreneurial competences for advancing economic and social innovation in Central European regions
- **AdriHealthMob –** Health and mobility in the Adriatic microregion

National fundings:
- **Firms within networks of words: Using text data to measure proximity between firms and firm performance**, 2023-2025
- **IT-compatible business models for technology transfer**, 2018-2021

Research Group Description

Provide the name of the reference department and a brief description of the research group, including external links, and available instrumentations and infrastructures. max 300 words
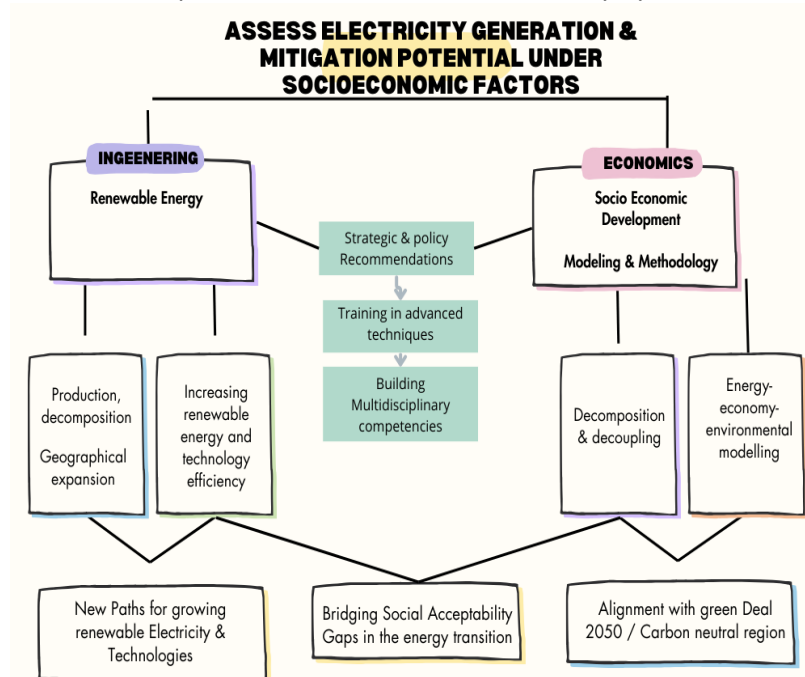
The research group consists of senior researchers, postdocs and PhD students from the Department of Social Sciences and Economics at Università Politecnica delle Marche and a group of researchers from partner universities: University of Brussels (innovation and technology analysis), Shandong Technology and Business University (energy and environment), ZEW Mannheim (technology management), University of Bologna (patent analysis) and Perugia (innovation). The participating researchers have different and complementary skills and abilities, as well as specific expertise in the use of data management tools for empirical analysis. All researchers are outstanding scientists with specific expertise in patents, innovation, energy and environmental economics and policy, technology foresight and industrial scenarios. In addition, there are research links with private national research centers (Istituto Tagliacarne - Italian Association of Chambers of Commerce) and with research departments of national and international organizations (Confindustria and OECD). The research group has access to several public databases on company accounts and patents, as well as proprietary datasets on surveys and field studies conducted by members of the Department.

Title and goals

Provide the title of the topic and a short summary of the project idea. max 200 words

Perspectives in Energy. The impact of technological trajectories in Net-Zero sectors.

The project will evaluate the potential for electricity generation and emissions reduction by considering key socio-economic factors during advanced development stages. It aims to chart innovative pathways to boost the use of renewable electricity and energy technologies, aligning with the 'Green Deal' action plan to achieve full carbon neutrality by 2050 and with global efforts.

Prof. Marco Cucculelli (PhD)
Department of Economics and Social Studies
Università Politecnica delle Marche
Piazzale Martelli, 8 – 60121 Ancona
m.cucculelli@univpm.it
www.univpm.it/marco.cucculelli