



UNIVERSITÀ
POLITECNICA
DELLE MARCHE

**Transient processes in the escape from a
potential well**

Supervisor: Prof. Stefano Lenci

Department of Department of Construction, Civil
Engineering and Architecture

<https://dicea.univpm.it/en/>



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Supervisor: Prof. Stefano Lenci

Research Group Description: the Supervisor

Prof. Stefano Lenci, *PhD, Prof*

Full Professor in Strucural Engineering (“Scienza delle Costruzioni”) DICEA, UNIVPM

Visiting Professor in 45+ Universities all 5 continents

Honorary Professor of the Sichuan University of Science and Engineering, Zigong, Sichuan, China

More than 240 peer-reviewed research articles with about 6700 citations (Scopus) received <http://orcid.org/0000-0003-3154-7896> (<https://www.scopus.com/authid/detail.uri?authorId=7004094943>, H-index = 49 according to Google Scholar; H-index = 43 according to Scopus). More than 25 years of experience in research and teaching at University Level

Involved in several national and international projects (NonlinEar Phenomena in floaTing offshore wind tUrbiNEs (NEPTUNE), Centre of Excellence for Modern Composites Applied in Aerospace and Surface Transport Infrastructure, etc.).



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Research Group Description: the Group

Nonlinear Dynamics at UNIVPM

STAFF: The group is currently formed by
Prof. Stefano Lenci

Prof. Michele Serpilli

Prof. Pierpaolo Belardinelli

Prof.ssa Valeria Settimi

Dr. Nico Novelli, PhD

Dr. Alessandro Cameli

Dr. Marco Luciani

RESEARCH ACTIVITY

Nonlinear dynamics of mechanical, civil and engineering structures (including MEMS, beams, wind turbines, etc.), developed at theoretical, analytical, numerical and experimental level, focusing attention of the phenomena typical of a nonlinear regime



RESEARCH AND PUBLICATIONS

[https://orcid.org/ 10.1007/s11071-025-10905-x](https://orcid.org/10.1007/s11071-025-10905-x)

<https://orcid.org/10.1007/s11071-024-10667-y>

[https://orcid.org/ 10.1016/j.rser.2023.113698](https://orcid.org/10.1016/j.rser.2023.113698)

EQUIPMENT

High Speed Camera PHOTRON Fastcam Nova S6, Laser doppler vibrometer Polytec PSV-500 1D, Shaker L1024M-PA115 SYSTEM SENTEK DYNAMICS, Sensors, DAQ, etc.

**Dept. of Construction, Civil Engineering
and Architecture – DICEA**



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The **Department of Construction, Civil Engineering and Architecture (DICEA)** is among the most active Italian departments of construction and civil engineering, as well as architecture, generating (*research*) and transferring (*training*) knowledge and value of the highest quality on such topics.

DICEA is arranged in 4 main sections: Architecture, Constructions, Infrastructures and Structures.

In 2017, DICEA was ranked among the best University departments of Italy (Department of Excellence) and awarded with a grant of 6,6 M€ in the period 2018-2022.

In 2022, DICEA was again ranked and then awarded with a new Department of Excellence grant (about 6,5 M€) for the period 2023-2027.

DICEA brings together a wide range of disciplines, being leading contributor to the undergraduate programmes in civil and environmental engineering, building engineering, architectural engineering. DICEA also offers postgraduate programmes in civil, environmental, building engineering and architecture.

In 2024, DICEA gathered more than 1.3 M€ of resources from international funded projects.

Coherently with the current global challenges, DICEA has individuated 4 main development axes for the next 5 years: Heritage Science; Safety of structures, infrastructures and natural systems; Digital management of constructions and built environments; Climate change, and constructions and transportation sustainability.

AT A GLANCE



2025



231

Publications

> 3.2 M€

Research income



53

Research staff



75

PhD, Post-doc,
Research
fellows



Department of
Excellence (from Italian
National Agency for
the Evaluation of
Universities and
Research Institutes):
- 2018 - 2022
- 2023 - 2027

1

Digital
Education Lab



Research
laboratories

8

Teaching programs for
FIRST CYCLE DEGREE:
Building Engineering, Civil and
Environmental Engineering
PROFESSIONAL DEGREE COURSE:
Technics for Territorial Design
and Management
MASTER DEGREES:
Civil Engineering, Building
Engineering, Environmental
Engineering
SINGLE CYCLE DEGREE:
Building Engineering-
Architecture

16 Scientific Areas:

CEAR-01/A, CEAR-01/B, CEAR-03/A, CEAR-03/B, CEAR-04/A, CEAR-06/A, CEAR-07/A, CEAR-08/A, CEAR-08/B, CEAR-09/A, CEAR-10/A, CEAR-11/A, CEAR-11/B, CEAR-12/B, MATH-03/A, GIUR-04/A