

CALLS AND EVENTS



PHD SCHOOL - CONFERRAL OF DOCTORAL DEGREES - MAY 27TH 2022

Every year, the PhD School confer Doctoral Degrees in an official Diploma Ceremony, during which few invited speakers, among which some ex-PhD Candidates report their post-doctoral experience.

Keynote Speakers:

- Daniele Rosati - PhD, Chief Technology Officer – NHOA group
- Tommaso Ghidini - Head, Structures, Mechanisms and Materials Division, European Space Agency (ESA)

Friday, May 27th, 2022 (2.30 pm)
Leonardo Campus, Via Bonardi, Building 13

Aula Magna Pesenti



CALL N. 1 PHD THESIS AWARD "PROF. FLORIAN DANIEL"

Recipient: PhD students
PhD from Politecnico di Milano in Information Technology

The award, in the sum of €1,000, will be awarded for the best PhD thesis among those addressing topics connected with: "Information Technology".

Deadline 20th May 2022



CARLA, THE EUROPEAN PHOTONICS CAREER LAUNCH PATH

On 12, 13 and 14 May 2022, Polimi will host the CARLA camp, an in-presence event around careers in photonics. The event is addressed to university students, PhD students and early-stage researchers. **Register before 5 May 2022.**

12, 13 and 14 of May 2022



AS FAST AS LIGHT / VELOCE COME LA LUCE

In occasion of the International Day of Light 2022, we invite you to a joint event between the OPTICA-SPIE-EPS Politecnico di Milano Chapter and the SMART-X Chapter about light and its interaction with matter.

On the 18th in Aula Auditorium (via Pascoli 53), two well-established researchers in their field, Dr. Caterina Vozzi and Dr. Laura Cattaneo, will explain how they film the motion of molecules, atoms, and electrons in real time in Italian!

On the 19th, a technical talk on ultrafast spectroscopy on liquid crystals will be given online by Dr. Laura Cattaneo.

[For info and registration \(May 18th\)](#)

[Online room \(May 19th\)](#)

May 18-19th 2022





SEMINARS



POLITECNICO
MILANO 1863

DESIGN, DESIGN RESEARCH, AND A DESIGN RESEARCH METHODOLOGY

Prof. Amaresh Chakrabarti

Prof. Chakrabarti will discuss the meanings and implications of design for design research, and elaborate on a design research methodology called DRM that is used widely for carrying out design research in a systematic manner.

May 5th, 2022



POLITECNICO
MILANO 1863

3D, UNSTEADY, NON-STATIONARY AND NON-GAUSSIAN WIND FLOWS AND THEIR EFFECTS

Prof. Horia Hangan

Prof. Hangan's research attempts to characterize wind flows and their effects through superpositions of isolated flows and their vortex structure, instabilities, translation and turbulence. Tornadoes, downbursts and gusts are used as examples.

May 16th, 2022



STARTING COURSES – PHD SCHOOL

INDUSTRIAL SKILLS

Prof. Paolo Biscari

Develop and exploit in the young PhD students a system of skills development and innovation management in industrial and service companies

From 10th May to 7th June 2022



INNOVATIVE TEACHING SKILLS

Prof. Domenico Savio Brunetto

The course objective is to stimulate the participants' awareness of the complexity of the learning/teaching processes, while providing hints and tools for an innovative design and management of the learning experiences.

From 2nd May to 30th June 2022



POWER OF IMAGES AND VISUAL COMMUNICATION FOR RESEARCH DISSEMINATION

Prof. Maria Pompeiana Iarossi, Prof. Letizia Bollini

The course aims to provide sparks for critical reflection and operational tools for an improvement of the effectiveness of visual language in academic context, both if the image is a support and an integration to a written text (as in a scientific article) and in case of oral presentations in scientific or public forums. (as a ppt for a conference).

From 30th May to 27th June 2022





PROJECT MANAGEMENT BASICS

Prof. Alfonso Fuggetta, Prof. Armando Beffani, Prof. Colombo Sara Grilli

Develop Project Management competencies and provide basic tools and techniques for Project Management activities

From 10th May to 14th June 2022



SCIENTIFIC COMMUNICATION IN ENGLISH

Prof. Paolo Biscari, Prof. Timothy Jan Sluckin

The aim of the course is to develop and improve the candidates' scientific writing, as well as increase their ability to deliver scientific and technical presentations in English.

From 9th to 27th May 2022



STARTING COURSES – DOCTORAL PROGRAMMES

PHD IN INFORMATION TECHNOLOGY

DESIGN OF REAL-TIME AND MIXED-CRITICALITY SYSTEMS

Prof. William Fornaciari

The course aims to present the challenges in designing safety-critical systems focusing on timing requirements in hard real-time environments. In particular, the course focuses on the state-of-the-art scheduling strategies to allocate tasks in single- and multi-core platforms, including in mixed-criticality setup. The current scientific trends and the status of industry-grade methodologies are also briefly presented to spur the students to do research in real-time computing. At the end of the course, the students will have acquired a general knowledge on the methodologies to design real-time systems and, thanks to the course project, how to implement them in simple but realistic platforms.

From 9th to 31st May 2022



PARALLEL COMPUTING ON TRADITIONAL CORE-BASED AND EMERGING GPU-BASED ARCHITECTURES THROUGH OPENMP AND OPENACC / CUDA

Prof. Luca Breveglieri

The course is dedicated to the techniques for high performance computing. It is aimed at experienced programmers, who wish to be introduced to the problems and solutions of parallel programming, or wish to optimize their applications on a parallel system. The spectrum of systems considered ranges from the traditional core-based systems to the emerging GPU-based ones. Effective techniques for developing and optimizing programs for parallel scientific and technical computing are presented, along with interesting sample applications and development proposals, thus following a "hands-on" teaching style. The course is cross-disciplinary.

From 23rd to 27th May 2022





PHD IN MECHANICAL ENGINEERING

STATISTICS IN THE BIG DATA ERA

Prof. Tsiamyrtzis Panagiotis

The course analyses how big data affect the existing statistical methods, recognize the issues and propose tools that are capable to overcome the problems caused by the growth in the data size and dimension.

From 3rd May 2022



INTRODUCTION TO COMPUTER VISION AND SENSOR DATA PROCESSING USING DEEP LEARNING

Prof. Prof. Karimi Hamid Reza

The course will focus on optical and infrared (IR) sensing and related applications.

From May 23rd, 2022

