First International ML academy course

IA

Introduction to
Machine Learning
for Civil Engineering and Architecture

Politecnico di Torino — 1859
DISEG
ArtIStE — Artificial Intelligence in Structural Engineering
ML Machine Learning Academy

DOCTORAL COURSE & SUMMER SCHOOL

3-Day Intensive Course on Machine Learning Tailored for Architecture & Civil Engineering PhD Candidates, Researchers, and Enthusiasts

I. Venanzi — University of Perugia, Italy
M.M. Rosso — Politecnico di Torino, Italy
G. C. Marano — Politecnico di Torino, Italy
C. Demartino — Roma Tre Univ., Italy
M. Broccardo — University of Trento, Italy
G. Quinci — Roma Tre Univ., Italy
G. Quaranta — Sapienza Univ. of Rome, Italy

VENUE
Room 7
Politecnico di Torino
C.so Duca degli Abruzzi, 24
10129, Turin, Italy

In conjunction with
ARTISTE 2025 Conference
Artificial Intelligence in Structural Engineering

Day 1 - Sept, 18th
Machine Learning Basics & Data Exploration
Python Fundamentals, Machine Learning Basics, Data Exploration, Classifiers, Gaussian Process Regression

Day 2 - Sept, 19th
Neural Networks
Basics, Feed-Forward ANN, Advanced Neural Networks: CNNs, RNNs, LSTM, Autoencoders, GANs

Day 3 - Sept, 20th
Regression Methods
Decision Trees, Random Forests, Boosting, Symbolic Regression, Computational Intelligence

SUMMER SCHOOL ARTISTE 2025
In-person & Remote Attendance

Mastering your Research in Civil Engineering & Architecture with cutting-edge Machine Learning
IN JUST 3 DAYS!

EXPECTED GOALS
- ✓ Establish Core ML Foundations
- ✓ Hands-On in Google Colab
- ✓ Learn Python with PyTorch, TensorFlow, Scipy and more
- ✓ Explore Symbolic Regression & Computational Intelligence
- ✓ Optimize Model Performance
- ✓ Integrate Advanced Techniques into your Research Field

WEBINAR SERIES: DISTINGUISHED LECTURES

From September, 22nd to December, 12th 2025

Education
Learn with Experts
Eminent Speakers For Real-World Applications

Knowledge
Open-Science
Web-Streaming available on CASSYNI Platform

CASSYNI — Research seminars

Enrollments are OPEN!

REGISTRATION
NO registration fees, but only a contribution is required for covering event logistics and services:

In-person — 150 €
Remote Attendance — 100 €   + VAT

Pre-register on our website & book your spot before August, 31st 2025

G. Karniadakis — Brown University, USA
M. Schields — John Hopkins University, USA
C. Ratti — Massachusetts Institute of Technology, USA
H. Li — Harbin Institute of Technology, P.R.China
K. E. Willcox — University of Texas at Austin, USA
K. Worden — University of Sheffield, UK

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